

POOR LEGIBILITY

**ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ
DUE TO THE QUALITY OF THE ORIGINAL**

Richard T. La Jeunesse, Esq.
Direct: (513) 629-2702
rlajeunesse@graydon.com

February 21, 2013

FEDERAL EXPRESS

Mr. Andrew Taylor
Case Developer
United States Environmental Protection Agency
Region IX
75 Hawthorne Street, SFD-7-5
8th Floor Mail Stop
San Francisco, CA 94105

Re: Request for Information Pursuant to CERCLA Section 104(e); San Fernando Valley Area 2 Superfund Site – Glendale Chromium Operable Unit; Former Facility of The Andrew Jergens Company (now known as Kao USA, Inc.), 99 West Verdugo Ave., Burbank, CA 91502

Dear Mr. Taylor

Enclosed please find the response from our client Kao USA Inc. ("Kao") submitted in reply to the information request letter from Ms. Kathi Moore, Manager, EPA Region IX dated January 23, 2013.

As noted in the response, by virtue of legal name changes, Kao USA Inc., was previously known as Kao Brands Company, and formerly known as The Andrew Jergens Company. Also please additionally note that the former Facility in question at 99 West Verdugo Ave. ceased operations in 1992 and was subsequently sold and redeveloped in the late 1990s into new commercial structures.

Further enclosed with Kao's response are copies of the prior No Further Action Letter from the City of Burbank Fire Department dated March 26, 1996; No Further Action Letter from the California Water Quality Control Board Los Angeles Region to The Andrew Jergens Company dated August 2, 1996; and the No Further Action Letter from EPA Region IX and the California Water Quality Control Board Los Angeles Region to The Andrew Jergens Company dated December 31, 1996, along with supporting documentation.

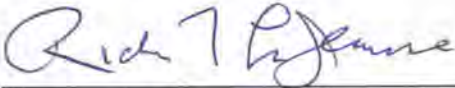
Additional responsive documents were previously provided in Kao's 104(e) response letter dated May 22, 1991 and Kao's 104(e) response letter dated June 16, 2011.

Mr. Andrew Taylor
February 21, 2013
Page 2

Please contact me if you have any questions or concerns. Thank you.

Very truly yours,

Graydon Head & Ritchey, LLP

By: 
Richard T. La Jeunesse, Esq.

RTL:mmk
Enclosures

c: Dennis R. Ward, Regional Executive Officer,
Vice President, Legal and General Counsel, Americas
and Secretary

4084892.2

Kao USA Inc.

2535 Spring Grove Avenue,
Cincinnati, Oh 45214-1729



February 19, 2013

VIA FEDERAL EXPRESS

Mr. Andrew Taylor
Case Developer
United States Environmental Protection Agency
Region IX
75 Hawthorne Street, SFD-7-5
8th Floor Mail Stop
San Francisco, CA 94105

**Re: Request for Information Pursuant to CERCLA Section 104(e); San
Fernando Valley Area 2 Superfund Site – Glendale Chromium
Operable Unit; Former Andrew Jergens Facility, 99 West Verdugo
Ave., Burbank, CA 91502**

Dear Mr. Taylor:

This letter and the documents submitted herewith are the response of Kao USA Inc. to a letter, dated January 23, 2013, to Mr. William J. Gentner, President/CEO of Kao Brands Company For Andrew Jergens Company (the same being now known as Kao USA Inc.) ("Kao") located at 2535 Spring Grove Avenue, Cincinnati, Ohio 45214.

Kao USA Inc. has responded to information requests from the United States Environmental Protection Agency ("EPA") on two separate occasions. Kao previously received a letter from Mr. Jerry Clifford, EPA Region IX requesting information about the Kao facility which used to be located at 99 W. Verdugo Ave., Burbank, CA ("Facility") dated March 14, 1991 ("EPA's 1991 Letter"). On May 22, 1991 Kao sent a 104(e) response letter ("Kao's 1991 Response Letter"). Subsequently, Kao received another information request from Mr. Carl Brickner, EPA Region IX dated April 7, 2011. On June 16, 2011 Kao sent a 104(e) response letter ("Kao's 2011 Response Letter"). As you requested, Kao USA Inc. will refer EPA to these letters where it is appropriate.

Please be advised that the Facility in question ceased operations in 1992, and was subsequently sold and has been redeveloped in the late 1990s into new commercial structures. Consequently much of the information provided, to the extent available, addresses the historic operation of the Facility, and not a current operating industrial site.

Since the Facility ceased operations in 1992, three No Further Action Letters have been issued to The Andrew Jergens Company in regards to the Facility. As part of the decommissioning of the Facility, all buildings were razed and all underground storage tanks were removed. In relation to the closure of the underground storage tanks, the City of Burbank Fire Department sent a No Further Action Letter dated March 26, 1996. Subsequently, the California Water Quality Control Board Los Angeles Region sent a No Further Action Letter to The Andrew Jergens Company dated August 2, 1996 stating that the site did not pose a threat to groundwater quality. Finally, based on soil and groundwater analysis submitted by environmental consultant EMCON on behalf of The Andrew Jergens Company, the EPA Region IX and the California Water Quality Control Board Los Angeles Region issued a joint No Further Action letter dated December 31, 1996. Since that time, no entity affiliated with Kao USA, Inc. has conducted any operations on the site or had any storage tanks or permanent structures on the site.

To the extent that information provided in any response (including, but not limited to, Kao's 1991 Response Letter and Kao's 2011 Response Letter) was labeled as a trade secret or as confidential information, Kao USA Inc. maintains an ongoing assertion of confidentiality and asks that EPA preserve the confidentiality of the documents and information provided in accordance with the Confidentiality Laws and Regulations (as said terms are used and referenced in Kao's 1991 Response).

Please note that any further information or communication with respect to this matter should be directed to **Richard La Jeunesse, Graydon Head & Ritchey LLP, 1900 Fifth Third Center, 511 Walnut Street, Cincinnati, OH 45202.**

ATTACHMENT B: INFORMATION REQUEST

1. State the full legal name, address, telephone number, position(s) held by, and tenure of the individual(s) answering any of the questions below on behalf of Andrew Jergens Company ("Jergens" or the "Company").

Response: Dennis Ward
Regional Executive Officer,
Vice President, Legal and General Counsel, Americas and Secretary
Kao USA Inc.
2535 Spring Grove Avenue
Cincinnati, Ohio 45214
Phone: 513-455-5348
Fax: 512-263-7348
dennis.ward@kao.com

Gary Manning
Compliance Specialist – Environmental,
Safety & Quality

Kao USA Inc.
2535 Spring Grove Avenue
Cincinnati, Ohio 45214
Phone: 513-455-7917
gary.manning@kao.com

2. Identify the individuals who are or were responsible for environmental matters at the Company's facility located at 99 W. Verdugo Ave., Burbank, CA (the "Facility"). Henceforth, the term "Facility" shall be interpreted to include both the real property at 99 W. Verdugo Ave., Burbank, CA and any improvement thereto. For each individual responsible for environmental matters, provide his/her full name, current or last known address, current or last known telephone number, position titles, and the dates each individual held such position.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request Nos. 14, 15, and 16.

3. Explain the Company's present operational status (e.g., active, suspended, defunct, merged, dissolved, etc.).

Response: Kao USA Inc., formerly known as Kao Brands Company, and formerly known as The Andrew Jergens Company ("Kao"), is an active company incorporated in Delaware. The company has changed names several times.

4. Provide the date the Company was incorporated, formed, or organized. Identify the state in which the Company was incorporated, formed, or organized.

Response: Kao USA Inc., formerly known as Kao Brands Company, and formerly known as The Andrew Jergens Company, was incorporated on May 10, 1971 in the State of Delaware.

5. Identify the business structure (e.g., sole proprietorship, general partnership, limited partnership, joint venture, corporation, etc.) under which the Company currently exists or operates and identify all former business structures under which it existed or operated since its inception.

Response: Kao USA Inc., formerly Kao Brands Company, formerly The Andrew Jergens Company, is a corporate entity.

6. For each business structure under which the Company has existed or operated at the Facility, provide the corresponding dates that it existed or operated under that business structure, the name(s) it used, and the Facility addresses at which it operated or was otherwise located.

Response: The first eight of the buildings which comprised the Facility were

constructed in 1920 by Carbasemo Products, a partnership consisting of Andrew Jergens, founder of The Andrew Jergens Company, and another individual. The partnership dissolved within a year and the facility became part of The Andrew Jergens Company. The Andrew Jergens Company, an Ohio corporation, merged with The Andrew Jergens Company, a Delaware corporation, in May of 1971. The Andrew Jergens Company was renamed Kao Brands Company on September 7, 2004. The Company changed its name to Kao USA Inc. on January 3, 2012. Neither of these name changes resulted in any change in ownership. For further information, please refer to Kao's 1991 Response Letter and documents responsive to Request Nos. 2, 3, 18, 19, and 20 and to Kao's 2011 Response Letter and documents responsive to Request No. 2.

7. Provide a copy of the articles of incorporation, partnership agreement, articles of organization, or any other documentation (together with any amendments) demonstrating the particular business structure under which the Company has existed or operated since its inception.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request Nos. 21-22 and to Kao's 2011 Response Letter and documents responsive to Request No. 2.

8. If the Company is or was operating under a fictitious business name, identify the fictitious name and the owner(s) of the fictitious name, and provide a copy of the Fictitious Business Name Statement filed with the county in which the Company is or was doing business.

Response: Kao USA Inc. filed a fictitious business name statement in 1998; however, the Facility ceased operations in 1992. Therefore, Kao was not operating the Facility under a fictitious name.

9. Identify and explain any and all sales of the Company's assets if the sale represented a sale of substantially all of the Company's assets.

Response: There has been no sale of all or substantially all of Kao USA Inc.'s assets since the Company was incorporated in May of 1971.

10. Identify and explain any investments by the Company in other businesses, companies, or corporations equating to 5% or more of that other business, company, or corporation from the formation of the Company to the present.

Response: After performing a diligent search of company records and directing inquiries to company personnel most likely to have relevant information, Kao has determined that this information is not readily available and would take considerable further time to obtain and assemble. If the requested information is essential to your investigation, please notify the referenced Kao representative and we will work

toward getting further information to you as quickly as practicable.

11. List the names, titles, telephone number(s), and current or last known addresses of all individuals who are currently or were officers and/or owners of the Company during any time that the Company was operating at the Facility, regardless of the business structure under which the Company is or was operated. Provide documentation of both the percentage of each individual's current or former ownership interest in the Company and the time period(s) during which he/she held this ownership interest.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 22. The Company ceased operating at the Facility in 1992.

12. Identify the dates the Company, under any of its current or former business structures, owned the Facility. Provide a copy of the title documentation evidencing the Company's ownership of the Facility.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 3. Subsequent to Kao's 1991 Response Letter, the Company razed the buildings, removed the underground storage tanks, and sold the Facility some time after 1996.

13. For any period of time in which the Company, under any of its current or former business structures, owned the Facility, provide the name, address, and phone number of any tenant or lessee. Provide a copy of each lease, rental agreement, or any other document that establishes the Company's relationship to any other operators at the Facility.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 5.

14. Provide the dates that the Company, under any of its current or former business structures, operated at the Facility.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 3 and to Kao's 2011 Response Letter and documents responsive to Request No. 3.

15. For any period of time in which the Company, under any of its current or former business structures, operated at, but did not own, the Facility, provide the name, address, and phone number of the Facility's owner. Provide a copy of each lease, rental agreement, or any other document that establishes the Company's relationship to the real property owner during the Company's occupancy of the Facility.

Response: Kao did not operate at the Facility prior to ownership. For further

information, please refer to Kao's 1991 Response Letter and documents responsive to Request Nos. 2, 3, 4, and 5.

16. Identify any individual or entity that owned or operated the Facility prior or subsequent to the Company. For each prior or subsequent owner or operator, further identify:
- The dates of ownership/operation
 - The nature of prior or subsequent operations at the Facility;
 - All evidence showing that the prior or subsequent owner or operator controlled access to the property; and
 - All evidence that a hazardous substance, pollutant, or contaminant was released or threatened to be released at the Facility during the period of prior or subsequent ownership or operation.

Response: For questions 16(a) through 16(d), please refer to Kao's 1991 Response Letter and documents responsive to Request Nos. 3, 4, and 5.

17. Provide a complete list of employees who had knowledge of the use of hazardous substances and disposal of wastes at the Facility during any or all of the period of time that the Company operated at or was otherwise associated with the Facility. For each employee listed, provide the following information:
- The employee's full name
 - The employee's current or last known address and telephone number, including the last known date on which you believe each address and telephone number was current
 - The dates that the employee worked at the Facility
 - The position(s) the employee held under any of the Company's business structures
 - The employee's job title(s) and the corresponding dates during which the Company believes that the employee would have had knowledge of the use and disposal of wastes

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 14.

18. Describe the size of the Facility, the approximate number of people employed by the Company at the Facility, and the product(s) manufactured or services performed by the Company at the Facility. Describe any significant change in Facility size, the number of employees, or the products manufactured over time.

Response: For information relating to the size and operation of the facility, please refer to Kao's 1991 Response Letter and documents responsive to Request Nos. 2

and 6 and to Kao's 2011 Response Letter and documents responsive to Request No. 3. Until it ceased operations in November of 1992, the Facility was used for the production of bar soap, personal care lotions, creams, and other cosmetic items, production methods for which consisted of batch blending of waxes, ethanol (in limited concentrations), glycerin, fatty alcohols, sodium hydroxide (in limited concentrations), fragrances, and water. After performing a diligent search of company records and directing inquiries to company personnel most likely to have relevant information, Kao was unable to determine the approximate number of people employed by the Company at the Facility.

19. If any substance containing chromium as a component ("chromium-related substances") was utilized in any of the Company's operations at the Facility, provide a complete description of those operations. Indicate the approximate volume of chromium or chromium-related substances used per month at the Facility, the dates chromium or chromium-related substances were used, and the storage and disposal practices in effect during the Company's operations at the Facility for materials containing chromium. Include documentation evidencing the Company's use of chromium or chromium-related substances.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request Nos. 4-5.

20. Provide a scaled map of the Facility that includes the locations of significant buildings and features. Indicate the locations of any maintenance shops, machine shops, degreasers, liquid waste tanks, chemical storage tanks, and fuel tanks. Provide a physical description of the Facility and identify the following:
- Surface structures (e.g., buildings, tanks, containment and/or storage areas, etc.);
 - Subsurface structures (e.g., underground tanks, sumps, pits, clarifiers, etc.);
 - Groundwater and dry wells, including drilling logs, date(s) of construction or completion, details of construction, uses of the well(s), date(s) the well(s) was/were abandoned, depth to groundwater, depth of well(s) and depth to and of screened interval(s);
 - Past and present stormwater drainage system and sanitary sewer system, including septic tank(s) and subsurface disposal field(s);
 - Any and all additions, demolitions or changes of any kind to physical structures on, under or about the Facility or to the property itself (e.g., excavation work), and state the date(s) on which such changes occurred; and
 - The location of all waste storage or waste accumulation areas as well as waste disposal areas, including but not limited to dumps, leach fields, and burn pits.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request Nos. 6 and 13 and to Kao's 2011 Response Letter and documents responsive to Request No. 4(I).

21. Provide copies of hazardous material business plans and chemical inventory forms (originals and updates) submitted to city, county, and state agencies for the Facility.

Response: In Kao's 2011 Response Letter, Kao provided responsive permit information in answering Request No. 11. That is the extent of available records.

22. Provide a list of all chemicals and hazardous substances used at the Facility, identifying the chemical composition and quantities used. Provide copies of Material Safety Data Sheets for all hazardous substances used.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 11.

23. Identify and provide the information below for all substances containing chromium, including but not limited to chromate compounds, which are or were used at, or transported to, the Facility:
- a. The trade or brand name, chemical composition, and quantity used for each chemical or hazardous substance and the Material Safety Data Sheet for each product;
 - b. The location(s) where each chemical or hazardous substance is or was used, stored, and disposed of;
 - c. The kinds of wastes (e.g., scrap metal, construction debris, motor oil, solvents, waste water), the quantities of wastes, and the methods of disposal for each chemical, waste, or hazardous substance;
 - d. The quantity purchased (in gallons), the time period during which it was used, and the identity of all persons who used it; and
 - e. The supplier(s), and provide copies of all contracts, service orders, shipping manifests, invoices, receipts, canceled checks, or any other documents pertaining to the supply of chemicals or hazardous substances.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 5.

24. Provide copies of all environmental data or technical or analytical information regarding soil, water, and air conditions at or adjacent to the Facility, including, but not limited to, environmental data or technical or analytical information related to soil contamination, soil sampling, soil gas sampling, geology, water (ground and surface), hydrogeology, groundwater sampling, and air quality.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 7.

25. Identify, and provide the following information for, all groundwater wells that are located at the Facility:

- a. A map with the specific locations of the Facility groundwater wells;
- b. Date the Facility groundwater wells were last sampled;
- c. List of all constituents that were analyzed during groundwater sampling events;
and
- d. All groundwater sampling results, reports of findings, and analytical data.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents and drawings responsive to Request Nos. 6(a), 6(b), and 7 and to Kao's 2011 Response Letter and documents responsive to Request No. 5(g). Additionally, groundwater monitoring wells were installed as part of soil remediation that took place on the site between 1995 and 1996. A No Further Action letter was issued August 2, 1996. Please see Kao's response below to Attachment D, Request No. 9 for more information.

26. Identify, and provide all groundwater data upgradient, downgradient, and on the Facility that you possess or have access to, including, but not limited to:
 - a. A map with the specific locations of the groundwater wells;
 - b. Date the groundwater wells were last sampled;
 - c. List of all constituents that were analyzed during groundwater sampling events;
and
 - d. All groundwater sampling results, reports of findings, and analytical data.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents and drawings responsive to Request Nos. 6(a), 6(b), and 7 and to Kao's 2011 Response Letter and documents responsive to Request No. 5(g).

27. Identify all insurance policies held by the Company from the time it commenced ownership of or operations at the Facility until the present. Provide the name and address of each insurer, the policy number, the amount of coverage and policy limits, the type of policy, and the expiration date of each policy. Include all comprehensive general liability policies and "first party" property insurance policies and all environmental impairment insurance. Provide a complete copy of each policy.

Response: Responsive information through the date of Kao's 1991 Response Letter has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 16. As set forth above, the Facility ceased operations in 1992.

28. Provide copies of any applications for permits or permits received for the Facility under any local, state, or federal environmental laws and regulations, including any waste discharge permits, such as national pollutant discharge elimination system permits.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 11.

29. If the Company discharged any of its waste stream to the sewer at the Facility, provide copies of all permits and all analyses performed on discharged water, and identify all locations where waste streams were discharged.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 14.

30. For each waste stream generated at the Facility, describe the procedures for (a) collection, (b) storage, (c) treatment, (d) transport, and (e) disposal of the waste stream.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 14.

31. Please provide a detailed description of all pre-treatment procedures performed by the Company on its waste streams at the Facility prior to transport to a disposal site.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 14.

32. Please describe the method used by the Company to remove waste streams from sumps at the Facility.

Response: Some responsive information has been provided. Please refer to Kao's 1991 Response Letter and documents and drawings responsive to Request Nos. 6(a) and 6(b). To the extent additional information is requested, after performing a diligent search of company records and directing inquiries to company personnel most likely to have relevant information, Kao has discovered no additional information responsive to this request.

33. Please identify all wastes that were stored at the Facility prior to shipment for disposal. Describe the storage procedures for each waste that was stored prior to disposal.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 11(d).

34. Please identify all leaks, spills, or other releases into the environment of any hazardous substances or pollutants or contaminants that have occurred at or from the Facility. In addition, identify and provide supporting documentation of:

- a. The date each release occurred;
- b. The cause of each release;
- c. The amount of each hazardous substance, waste, or pollutant or contaminant released during each release;
- d. Where each release occurred and what areas were impacted by the release; and
- e. Any and all activities undertaken in response to each release, including the notification of any local, state, or federal government agencies about the release.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 12. Additionally, soil remediation took place on the site between 1995 and 1996. A No Further Action letter was issued August 2, 1996. Please see Kao's response below to Attachment D, Request No. 9 for more information.

35. Provide copies of any correspondence between the Company and local, state, or federal authorities concerning the use, handling, or disposal of hazardous substances at the Facility, including but not limited to any correspondence concerning any of the releases identified in response to the previous question.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request Nos. 11(h) and to Kao's 2011 Response Letter and documents responsive to Request Nos. 12. Additionally, soil remediation took place on the site between 1995 and 1996. No Further Action Letters were issued by the City of Burbank Fire Department on March 23, 1996, by the California Water Quality Control Board on August 2, 1996, and by EPA Region IX on December 31, 1996. Related correspondence is attached hereto.

36. Provide all information that the Company may possess or have access to that indicates that chromium and the hexavalent chromium-containing substances used at the facility have not reached groundwater.

Response: Kao has no information regarding the use of chromium or hexavalent chromium being used in its operations. Please refer to Kao's 2011 Response Letter and documents responsive to Request Nos. 5 and 10. Further, prior to the sale and redevelopment of the Facility, all underground storage tanks were removed by 1996. A No Further Action letter was issued by the California Regional Water Quality Control Board on August 2, 1996. The No Further Action letter indicated that the soil did not pose a continuing threat to ground water quality. Please see Kao's response below to Attachment D, Request No. 9 for more information.

**SUPPLEMENTAL QUESTIONS TO APRIL 7, 2011
EPA 104(E) INFORMATION REQUEST LETTER**

37. With regard to Question 2 of EPA's April 7, 2011 104(e) Information Request Letter, which requested a description of the current and former relationship between Kao

Brands Company, The Andrew Jergens Company, and Andrew Jergens Co., please provide the dates and nature of any mergers, acquisitions, assumptions of assets, or agreements regarding historical or future liabilities. Also include any contracts, leases or partnerships between the parties listed above and the dates within which these relationships existed. Please provide any documents supporting this description, including documents supporting the partial response given to Question 2 in Kao Brands Company's June 16, 2011 response letter.

Response: The Andrew Jergens Company was formed and began operating the Facility in May of 1971. The Andrew Jergens Company was renamed Kao Brands Company on September 7, 2004. The Company changed its name to Kao USA Inc. on January 3, 2012. Neither of these resulted in any change in ownership; both were merely name changes. There are no contracts, leases or partnerships between the parties. For further information, please refer to Kao's 1991 Response Letter and documents responsive to Request Nos. 3, 18-20.

38. With regard to Question 11 of EPA's April 7, 2011 104(e) Information Request Letter, provide all compliance testing results for all waste streams exiting the Facility regardless of whether or not related to chromium or chromium containing products.

Response: After performing a diligent search of company records and directing inquiries to company personnel most likely to have relevant information, Kao USA Inc. has discovered no information responsive to this request.

39. With regard to injection wells at the Facility, please provide any information on the well number, permit number, location, period of use and other details, maps or as-built drawings that provide information regarding the injection of chemicals or the pumping of groundwater related to injection wells.

Response: Please refer to Kao's 2011 Response Letter and documents responsive to Request Nos. 11 for all available information with respect to permits for the facility. In addition, please refer to the Facility site map and drawings responsive to this request was provided in Kao's 1991 Response Letter in response to Request Nos. 6(a), 6(b), and 6(c) for the locations of all wells, underground storage tanks, and equipment. Please also refer to Kao's 2011 Response Letter and documents and drawings responsive to Request Nos. 4(l) and 5(f). Based on the information provided, particularly to Request No. 6(c) in Kao's 1991 Response Letter, no injection wells are located at the Facility.

ATTACHMENT C: INFORMATION REQUEST FOR METAL FINISHERS

1. Identify those individuals who provided the knowledge, information and documents used to prepare the response to these questions. Include the full name, current title and duties, as well as past titles and duties, current address and telephone number,

and tenure for each individual providing an answer for any of these questions.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

2. Please describe, in detail and in narrative fashion, the plating and other metal finishing operations (as defined in Attachment A), and metal finishing equipment at the Facility, and changes to the metal finishing operations and associated equipment, since the beginning of the Company's operations at the Facility. Your response to this question must include the following for all of the metal finishing equipment used over time at the Facility:
 - a. Provide the dates that the metal finishing operations took place at the Facility;
 - b. Provide the dates that the metal finishing equipment was used at the Facility;
 - c. State the year(s) that the metal finishing equipment was installed, and identify the specific equipment used in metal finishing operations;
 - d. Identify the type of metal finishing performed at the Facility and state whether the metal finishing equipment utilized open or closed dipping tanks and secondary containment structures;
 - e. Identify the substances that were used in the metal finishing operations and associated equipment, including but not limited to corrosion inhibitors, and provide Material Safety Data Sheets ("MSDSs") for all such substances;
 - f. State whether or not substances containing chromium, including but not limited to chromate compounds, were ever used in the Company's metal finishing operations and metal finishing equipment;
 - g. Describe how the substances identified in 2.e. and 2.f., above, were used in the metal finishing operations and metal finishing equipment, and identify the locations where such substances were stored at the Facility;
 - h. State the quantities and years that the substances identified in 2.e. and 2.f., above, were stored and used at the Facility;
 - i. If the Company was required to report the type and quantity of substances identified in 2.e. and 2.f., above, to any federal or state agency or entity, provide copies of all such reports;
 - j. Provide all maps, drawings, diagrams, plans, blueprints, photographs and flow charts related to past and current metal finishing operations, metal finishing equipment and associated piping showing the location of all metal finishing equipment, clarifiers, dry wells, sumps, underground structures, piping and other equipment that were ever connected to the metal finishing equipment;
 - k. Describe the waste streams generated by metal finishing operations and metal finishing equipment;
 - l. State the volume and frequency of the metal finishing waste materials discharged from the metal finishing operations, and describe the waste storage methods for the waste materials;

- m. Describe how and where waste materials were released from the metal finishing system; Provide copies of all analyses for substances containing chromium, including but not limited to chromate compounds, performed on the materials used in the metal finishing equipment during metal finishing operations, and discharged from the metal finishing equipment prior to disposal; and
- o. Provide copies of all analyses for substances containing chromium, including but not limited to chromate compounds in water, sludge or other substances generated during metal finishing operations.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

- 3. If any substance containing chromium as a component, including but not limited to chromate compounds, was utilized in any operations at the Facility since the beginning of the Company's operations at the Facility, provide a complete description of those operations if not already described in your response to Question 2 above. Indicate the approximate volume of chromium or chromate compounds used per month at the Facility, the period of time during which chromium or chromate compounds were used, and describe the storage and disposal practices in effect for materials containing chromium or chromate compounds.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

- 4. Please state the source of metal finishing materials used in the Company's metal finishing operations and metal finishing equipment since the beginning of the Company's operations at the Facility.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

- 5. Please describe where the Company disposed of materials used in the Facility's metal finishing operations and metal finishing equipment since the beginning of the Company's operations at the Facility

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

- 6. State whether there have been any releases, or suspected releases, of substances containing chromium, including but not limited to chromate compounds, to the environment at and from the Facility and provide any document describing,

evidencing or otherwise documenting such releases.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

7. State the number of tanks, including but not limited to "dipping tanks," sumps and clarifiers ever constructed at the Facility or connected to the Facility at any time.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

8. State the number of tanks, including but not limited to "dipping tanks," sumps and clarifiers ever constructed at the Facility or connected to the Facility at any time.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

9. Provide copies of all analyses performed on the soil and groundwater at the Facility, including but not limited to analyses performed on the soil and groundwater beneath and surrounding the tanks identified in Question 7, above. Provide copies of all investigation reports related to those analyses.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

10. Were substances containing chromium, including but not limited to chromate compounds, ever pumped, drained, discharged, injected and/or released to the tanks identified in Question 7, above?

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

11. Provide all documentation, drawings, diagrams, plans, blueprints, photographs, and flow charts that discuss or depict channels, pits, underground storage tanks, aboveground storage tanks, ponds, drywells, sumps, clarifiers and any other aboveground or underground structures used for storage or disposal since the beginning of the Company's operations at the Facility.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have

any responsive information.

12. Describe how the Company used the channels, pits, underground storage tanks, aboveground storage tanks, ponds, drywells, sumps, clarifiers and any other aboveground or underground structures used for storage or disposal identified in Question 11, above.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

13. Were substances containing chromium, including but not limited to chromate compounds, ever pumped, drained, discharged, injected and/or released to the channels, pits, underground storage tanks, aboveground storage tanks, ponds, drywells, sumps, clarifiers and any other aboveground or underground structures used for storage or disposal identified in Question 11, above?

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

14. Identify and provide copies of any documentation of any hazardous waste-related tax paid by the Company related to any facility from which waste was sent to an off-site disposal facility, and identify the dates upon which you paid such taxes, including but not limited to a description of whether such tax(es) were local, state or federal and the specific regulations under which you were required to pay the tax(es).

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

15. List and provide copies of all federal, state, county, city and all other local permits, licenses, and/or registrations and their respective permit numbers issued concerning the Facility and the storage, use, and discharge of substances containing chromium, including but not limited to chromate compounds, including but not limited to permits and correspondence related to Publicly Owned Treatment Works ("POTW"), Los Angeles County permits and licenses, and California Air Quality Management District permits and licenses. Your response must include all compliance testing results for all waste streams exiting the Facility.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

16. State whether the Company has or had a permit or permits issued under the Resource

Conservation and Recovery Act ("RCRA") for the Facility or Facilities. If the answer is "yes," identify all such permits, including but not limited to the dates of issuance and a general description of the process permitted. Provide copies of all such permits.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

17. Provide the names, addresses and telephone numbers of any individuals, including former and current employees, who may be knowledgeable of the Company's operations with respect to substances containing chromium, including but not limited to chromate compounds and other hazardous substance, waste or pollutant or contaminant handling, storage and disposal practices at the Facility.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

18. Provide the names, addresses and telephone numbers of any individuals, including former and current employees, who may be knowledgeable of the Company's operations with respect to substances containing chromium, including but not limited to chromate compounds and other hazardous substance, waste or pollutant or contaminant handling, storage and disposal practices at the Facility.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

19. Provide the names of and contact information, including addresses and telephone numbers, for companies and/or individuals that owned the property at the time that the metal finishing operations and metal finishing equipment were used at the Facility.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

20. For each prior or subsequent owner or operator identified in your response to Question 19, further identify all evidence that a hazardous substance, pollutant, or contaminant containing chromium was released or threatened to be released at the Facility during the period of prior or subsequent ownership or operation.

Response: Operations at the Andrew Jergens facility in San Fernando Valley did not include any plating or other metal finishing's operations. Therefore, we do not have any responsive information.

**ATTACHMENT D: INFORMATION REQUEST FOR FACILITIES
THAT HAVE UTILIZED COOLING SYSTEMS**

1. Identify those individuals who provided the knowledge, information and documents used to prepare the response to these questions. Include the full name, current title and duties, as well as past titles and duties, current address and telephone number, and tenure for each individual providing an answer for any of these questions.

Response: Dennis Ward
Regional Executive Officer, Vice President, Legal and
General Counsel, Americas and Secretary
Kao USA Inc..
2535 Spring Grove Avenue
Cincinnati, Ohio 45214
Phone: 513-455-5348
Fax: 512-263-7348
dennis.ward@kao.com

Gary Manning
Compliance Specialist – Environmental,
Safety & Quality
Kao USA Inc.
2535 Spring Grove Avenue
Cincinnati, Ohio 45214
Phone: 513-455-7917
gary.manning@kao.com

2. Please describe, in detail and in narrative fashion, the cooling systems and cooling towers used at the Facility, and changes to the cooling systems and cooling towers, since the beginning of the Company's operations at the Facility. Your response to this question must include the following for all of the cooling systems used over time at the Facility:
 - a. Provide the dates that the cooling systems were in operation at the Facility;
 - b. Provide the dates that the cooling towers were in operation at the Facility;
 - c. State the year(s) that the cooling towers were constructed, and identify the materials of which the towers were constructed (e.g. metal, wood, etc.);
 - d. Identify the type of cooling system and state whether the cooling systems were "open recirculating cooling systems" or "closed recirculating cooling systems";
 - e. Identify the substances that were used in the cooling systems and cooling towers, and in the water circulated within the cooling systems and cooling towers, including but not limited to corrosion inhibitors, and provide Material Safety Data Sheets ("MSDSs") for all such substances;
 - f. State whether or not substances containing chromium, including but not limited

- to potassium dichromate, were ever used in the Company's cooling systems and cooling towers;
- g. Describe how the substances identified in 2.e. and 2.f., above, were used in the cooling systems and cooling towers, and identify the locations where such substances were stored at the Facility;
 - h. State the quantities and years that the substances identified in 2.e. and 2.f., above, were stored and used at the Facility;
 - i. If the Company was required to report the type and quantity of substances identified in 2.e. and 2.f., above, to any federal or state agency or entity, provide copies of all such reports;
 - j. Provide all maps, drawings, diagrams, plans, blueprints, photographs and flow charts related to past and current cooling systems, cooling towers and associated piping showing the location of all cooling towers, percolation pits, dry wells, sumps, underground structures, piping and other wells that were ever connected to the cooling system including but not limited to cooling water blowdown from cooling towers;
 - k. Describe the waste streams generated by operation of the cooling systems and cooling towers;
 - l. State the volume and frequency of the cooling water blowdown discharged from the cooling system, and describe the waste storage methods for the blowdown;
 - m. Describe how and where cooling tower purge steam was released from the cooling system;
 - n. Provide copies of all analyses for chromium performed on the water prior to use in the cooling systems and cooling towers, during use in the cooling systems and cooling towers, and discharged from the cooling system and cooling towers; and
 - o. Provide copies of all analyses for chromium in air emitted from the cooling systems and cooling towers.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 4.

- 3. If any substance containing chromium as a component ("chromium-related substances") was utilized in any operations at the Facility since the beginning of the Company's operations at the Facility, provide a complete description of those operations if not already described in your response to Question 2 above. Indicate the approximate volume of chromium or chromium-related substances used per month at the Facility, the period of time during which chromium or chromium-related substances were used, and describe the storage and disposal practices in effect for materials containing chromium.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request Nos. 4 and 5.

- 4. Please state the source of water used in the Company's cooling systems and cooling towers since the beginning of the Company's operations at the Facility.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 6.

5. Please describe where the Company disposed of water used in the Facility's cooling systems and cooling towers since the beginning of the Company's operations at the Facility.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 7.

6. State whether there have been any releases, or suspected releases, of substances containing chromium, including but not limited to potassium dichromate, to the environment at and from the Facility and provide any document describing, evidencing or otherwise documenting such releases.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request Nos. 12-13 and to Kao's 2011 Response Letter and documents responsive to Request No. 4.

7. State the number of pits, including but not limited to "condensation pits," "percpits," "percolation pits," "discharge pits," "dry wells," and "septic pits" ever constructed at the Facility or connected to the Facility at any time.

Response: A Facility site map and drawings responsive to this request was provided in Kao's 1991 Response Letter in response to Request Nos. 6(a) and 6(b). Please also refer to Kao's 2011 Response Letter and documents and drawings responsive to Request Nos. 4(l) and 5(f).

8. Describe how the Company used the pits identified in Question 7, above.

Response: The pits were used for sump and other industrial purposes as indicated on the drawings previously provided. With respect to the releases described in to Kao's 1991 Response Letter and documents responsive to Request No. 12, the releases did not occur in any subsurface disposal system, floor drain, sump, or dry well, inside or under any building located at the facility. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 13.

9. Provide copies of all analyses performed on the soil and groundwater at the Facility, including but not limited to analyses performed on the soil and water beneath and surrounding the pits identified in Question 7, above. Provide copies of all investigation reports related to those analyses.

Response: Responsive information has already been provided. Please refer to Kao's 1991 Response Letter and documents responsive to Request No. 7. Additionally,

petroleum hydrocarbons were discovered in samples taken from the sidewall during excavation and removal of the underground storage tanks located at the Facility. The soil was subsequently remediated and a No Further Action letter was issued by the California Regional Water Quality Control Board on August 2, 1996. EPA Region IX and the California Regional Water Quality Control Board issued a joint No Further Action Letter dated December 31, 1996. The reports and correspondence with the local, state, and federal entities are attached hereto.

10. Were substances containing chromium ever pumped, drained, discharged, injected and/or released to the pits identified in Question 7, above?

Response: After performing a diligent search of company records and directing inquiries to company personnel most likely to have relevant information, Kao brands has discovered no evidence that any substances containing chromium were ever pumped, drained, discharged, injected, or released to the pits identified in Question 7. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 5(a).

11. Provide all documentation, drawings, diagrams, plans, blueprints, photographs, and flow charts that discuss or depict channels, pits, underground storage tanks, aboveground storage tanks, ponds, drywells, sumps and any other aboveground or underground structures used for storage or disposal since the beginning of the Company's operations at the Facility.

Response: A facility site map and drawings responsive to this request was provided in Kao's 1991 Response Letter in response to Request Nos. 6(a) and 6(b). Please also refer to Kao's 2011 Response Letter and documents and drawings responsive to Request Nos. 4(l) and 5(f).

12. Identify and provide copies of any documentation of any hazardous waste-related tax paid by the Company related to any facility from which waste was sent to an off-site disposal facility, and identify the dates upon which you paid such taxes, including but not limited to a description of whether such tax(es) were local, state or federal and the specific regulations under which you were required to pay the tax(es).

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 10.

13. List and provide copies of all federal, state, county, city and all other local permits, licenses, and/or registrations and their respective permit numbers issued concerning the Facility and the storage, use, and discharge of substances containing chromium, including but not limited to permits and correspondence related to Publicly Owned Treatment Works ("POTW"), Los Angeles County permits and licenses, and California Air Quality Management District permits and licenses. Your response must include all compliance testing results for all waste streams exiting the Facility.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 11.

14. State whether the Company has or had a permit or permits issued under the Resource Conservation and Recovery Act ("RCRA") for the Facility or Facilities. If the answer is "yes," identify all such permits, including but not limited to the dates of issuance and a general description of the process permitted. Provide copies of all such permits.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 13.

15. Provide the names, addresses and telephone numbers of any individuals, including former and current employees, who may be knowledgeable of the Company's operations with respect to chromium, potassium dichromate, and other hazardous substance, waste or pollutant or contaminant handling, storage and disposal practices at the Facility.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 14.

16. Provide the names, addresses and telephone numbers of all individuals, including former and current employees, who may be knowledgeable of the cooling system(s) and cooling towers used at the Facility and all changes to the cooling system(s). Your response must include personnel that regularly maintained and repaired cooling systems at the Facility since the beginning of the Company's operations at the Facility.

Response: Responsive information has already been provided. Please refer to Kao's 2011 Response Letter and documents responsive to Request No. 15.

17. Provide the names of and contact information, including addresses and telephone numbers, for companies and/or individuals that owned the property at the time that the cooling systems and cooling towers were used at the Facility.

Response: Please refer to Kao's 1991 Response Letter and documents responsive to Request Nos. 3 and 4 for the names of companies that owned the property at the time that the cooling systems and cooling towers were used at the Facility. Current contact information for Kao USA Inc. has been provided.

In formulating these responses please appreciate that The Andrew Jergens Company operated the Facility until 1992, after which point it was decommissioned. By 1995, all the buildings on the site had been demolished and the underground storage tanks were removed. After the underground storage tanks were removed, a No Further Action Letter was issued by the California Water Quality Control Board ("Board") on August 2, 1996, in which the Board

Mr. Andrew Taylor
February 19, 2013
Page 23

recognized that the soil at the Facility did not pose a continuing threat to groundwater quality. No volatile organic compounds were reported. Subsequently, EPA Region IX and the California Water Quality Control Board issued a joint No Further Action Letter to The Andrew Jergens Company dated December 31, 1996 ("1996 EPA NFA Letter"). **The 1996 EPA NFA Letter stated that "[The Andrew Jergens Company would] not be asked by the U.S. EPA or the Regional Board to participate in regional groundwater projects currently planned for San Fernando Valley."** Further, it states on the EPA Region IX website:

"[T]he entities who received the 'No-Further-Action' letters will not be asked by EPA or the RWQCB to participate in regional ground-water cleanup projects currently planned for the San Fernando Basin Superfund Sites. These entities are no longer part of the EPA Superfund process for the San Fernando Basin sites, and the RWQCB and EPA plan no further action at these facilities."

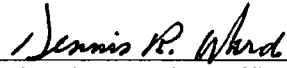
The Andrew Jergens Company is then listed among the No Further Action Letter recipients.

Sometime between 1996 and 2002, the Facility was broken into multiple parcels, redeveloped, and sold. Because all of the original buildings and structures were removed over 17 years ago and because Kao no longer owns the Facility, available information responsive to EPA's most recent request is limited. To the extent of our actual knowledge and ability, all available responsive information has been provided.

This concludes the response of Kao USA Inc. to the foregoing request.

Sincerely,

KAO USA INC.

By: 
Title: Regional Executive Officer,
Vice President, Legal and General
Counsel, Americas and Secretary

Mr. Andrew Taylor
February 19, 2013
Page 24

Enclosures:	1.	No Further Action Letter from the City of Burbank Fire Department to EMCON dated March 26, 1996
	a.)	Letter from City of Burbank to Andrew Jergens Company dated July 11, 1995
	b.)	Workplan for Additional Site Investigation and Remediation submitted by EMCON on behalf of The Andrew Jergens Company to the City of Burbank Fire Department dated September 20, 1995
	c.)	Letter from the City of Burbank to The Andrew Jergens Company dated October 31, 1995
	d.)	Remedial Action Plan for Additional Site Remediation submitted by EMCON on behalf of The Andrew Jergens Company to the City of Burbank Fire Department dated December 13, 1995
	e.)	Letter from City of Burbank to EMCON dated December 21, 1995
	f.)	Letter from EMCON to the City of Burbank Fire Department dated December 26, 1995
	g.)	Letter from EMCON on behalf of The Andrew Jergens Company to the City of Burbank Fire Department dated February 21, 1996
	h.)	Letter from City of Burbank Fire Department to The Andrew Jergens Company dated October 2, 1991
	i.)	Letter from The Andrew Jergens Company to the City of Burbank Fire Prevention Bureau dated October 14, 1991
	2.	No Further Action Letter from the California Water Quality Control Board Los Angeles Region to The Andrew Jergens Company dated August 2, 1996
	a.)	Letter from California Regional Water Quality Control Board to EMCON dated July 28, 1995
	3.	No Further Action Letter from EPA Region IX and the California Water Quality Control Board Los Angeles Region to The Andrew Jergens Company dated December 31, 1996

22349 600 001



FIRE DEPARTMENT

MICHAEL W. DAVIS
FIRE CHIEF

March 26, 1996

CITY OF BURBANK

353 EAST OLIVE AVENUE, BURBANK, CALIFORNIA 91502-1282

(818) 238-3473

FAX (818) 238-3483

Ms. Sally W. Bilodeau, C.E.G.
 Director of Hazardous Waste Services
 EMCON
 3300 North San Fernando Boulevard
 Burbank, CA 91504

RE: FINAL CLOSURE - FOR CLARIFIER AND TANKS 1 THROUGH 8 AS IDENTIFIED
 BY ANDREW JERGENS, 99 WEST VERDUGO AVENUE, BURBANK

Dear Ms. Bilodeau:

This letter confirms the completion of site investigation and remedial action taken for the above referenced underground storage tanks. Thank you for your cooperation throughout this corrective action. (EMCON Additional Site Investigation and Remediation for Former Andrew Jergens Facility, dated February 21, 1996)

With the provision that the information submitted to this office is accurate and is representative of existing conditions, it is our position that no further action related to the underground storage tank release is required at this time, as set forth in Title 23 CCR, Chapter 16, Article 11. However, please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at this site. Nor does it relieve you of the responsibility to clean up existing, additional, or previously unidentified conditions at the site.

It is the owner's responsibility to notify this agency of any changes in report contents, future contamination findings or site usage that may require site characterization and/or mitigation.

Jergens (Cont'd)
March 26, 1996
Page 2

If you have any questions, contact Inspector Josef R. Solares at (818) 238-3473.

Michael W. Davis
Chief of Fire Department

By Josef R. Solares for
Josef R. Solares, Inspector
Underground Storage Tank Unit

cc: Mr. Anthony J. Scrudato, The Andrew Jergens Company
Mr. Dennis Ward, The Andrew Jergens Company
Mr. Gregory A. Cunningham, The Andrew Jergens Company
Mr. Al Novak, Los Angeles Regional Water Quality Control Board

99wvcr.396



CITY OF BURBANK
353 EAST OLIVE AVENUE, BURBANK, CALIFORNIA 91502-1282
(818) 238-3473
FAX (818) 238-3483

FIRE DEPARTMENT
MICHAEL W. DAVIS
FIRE CHIEF

March 29, 1996

Ms. Sally W. Bilodeau, C.E.G.
Director of Hazardous Waste Services
EMCON
3300 North San Fernando Boulevard
Burbank, CA 91504

RE: FINAL CLOSURE - FOR TANKS 5 THROUGH 8 AS IDENTIFIED BY ANDREW JERGENS, 99 WEST VERDUGO AVENUE, BURBANK, CA

Dear Ms. Bilodeau:

This letter confirms the completion of site investigation and remedial action taken for the above referenced underground storage tanks. Thank you for your cooperation throughout this corrective action. (EMCON Additional Site Investigation and Remediation for Former Andrew Jergens Facility, dated February 21, 1996)

With the provision that the information submitted to this office is accurate and is representative of existing conditions, it is our position that no further action related to the underground storage tank release is required at this time, as set forth in Title 23 CCR, Chapter 16, Article 11. However, please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at this site. Nor does it relieve you of the responsibility to clean up existing, additional, or previously unidentified conditions at the site.

It is the owner's responsibility to notify this agency of any changes in report contents, future contamination findings or site usage that may require site characterization and/or mitigation.

Very truly yours,
Michael W. Davis
Fire Chief

Enclosure

2025 RELEASE UNDER E.O. 14176

99 W. Verdugo Avenue

Page 2

March 29, 1996

If you have any questions, contact Inspector Josef R. Solares at (818) 238-3473.

Michael W. Davis
Chief of Fire Department

By 

Josef R. Solares, Inspector
Underground Storage Tank Unit

cc: Mr. Anthony J. Scrudato, The Andrew Jergens Company
Mr. Dennis Ward, The Andrew Jergens Company
Mr. Gregory A. Cunningham, The Andrew Jergens Company
Mr. Al Novak, Los Angeles Regional Water Quality Control Board



CITY OF BURBANK
353 EAST OLIVE AVENUE, BURBANK, CALIFORNIA 91502-1282
(818) 953-8777
FAX NO. (818) 953-8788

FIRE DEPARTMENT

July 11, 1995

Mr. Bob Summerville
ANDREW JERGENS COMPANY
2535 Spring Grove Ave
Cincinnati, Ohio 45214

**SUBJECT: 99 WEST VERDUGO AVENUE
SITE CHARACTERIZATION/INVESTIGATION**

Dear Mr. Summerville:

This office has reviewed the underground storage closure report dated April 10, 1995, submitted by your consultant (JACK K. BRYANT ENGINEER). Based on the information submitted, we concur with the findings of your consultant. The data collected indicates that an unauthorized release of hydrocarbon based contaminants has occurred from tanks 5, 6, and 8 with the soils surrounding tank 4 also effected.

Therefore, you are to submit a work plan, by August 9, 1995, to investigate and define the vertical and horizontal extent of contamination surrounding tanks 5, 6, 8 and 4 identified during the tank removal project. Your work plan should include, but not be limited to, the following:

SITE INFORMATION:

Filing of the Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report.

List any previous business activities. Give name, address, and phone number of any landlord/lessor.

FACILITY MAP:

Identify, on a scaled facility map, all potential sources for contamination, past and present. Examples include transfer and use areas including tanks and piping.

SITE SOILS AND GEOLOGY:

Provide background geological data for the area. Use EPA or State Department of Health Services guidelines.

1. Provide rationale for the number and location of borings. Plot on facility map.
2. Provide reasons for proposed depth of each boring if less than the generally required depth of 50 feet. Additional depths may be required if ground water is encountered or if there is obvious contamination in the boring. Provide a Contingency Plan to extend soil test borings beyond the fifty foot depths.

ANDREW JERGENS COMPANY

Page 2

July 11, 1995

3. Identify proposed construction methods for borings.
4. Log all borings to provide characteristics of unconsolidated material per Unified Soil Classification System as well as all other appropriate information.
5. Provide a sampling plan to include equipment and procedures for collection and handling of geologic materials. A sampling interval of 5 feet, each change in lithology or changes in observed contamination is required starting at just below surface or surface covering.
6. Comply with chain of custody procedures. Discrete, undisturbed samples will be taken, sealed, and transported to the laboratory for analyses within 24 to 48 hours of sampling. Samples submitted for laboratory analyses are not to be used for field screening.
7. The proposed laboratory must be State Department of Health Service registered for each analytical procedure specified. EPA Methods 8020 (B.T.X.E.), EPA Method 8015 (Total Petroleum Hydrocarbons, Diesel), EPA Method 418.1 (Total Recoverable Petroleum Hydrocarbon) and EPA Method 8010 (Halogenated Volatile Organic) for borings associated with the former location of tanks 5,6,8, and tank 4 are required. Supplement with Methods necessary for any site chemical, past and present.
8. At a minimum, EPA sample holding times and conditions must be observed.
9. EPA practical quantitation limits (5 to 10 ug/kg for selected VOC) are required. Analytical results must indicate detection limits and whether a chemical potentially exists (tracc).
10. Minimum laboratory QA/QC requirements include field and reagent blanks, calibration check standards, matrix spiked and duplicates with spiking concentrations, total recoverables, and laboratory quality control samples.

GROUNDWATER (HYDROGEOLOGY):

Ground water must be sampled if any boring encounters a saturated zone. Site specific exception may be made with approval from the State Water Resources Quality Control Board, Los Angeles Region.

1. Provide a contingency plan for conversion of borings that encounter saturated zones to ground water sampling wells. This should include permitting and well design, construction, and development specifications.
2. Provide protocols for field analysis, water sampling, handling and transport.
3. Observe appropriate EPA Methods and Series Methods for analyzing water samples.

ANDREW JERGENS COMPANY

Page 3

July 11, 1995


ADDITIONAL REQUIREMENTS:

1. Submit a copy of the results of any previous subsurface investigation conducted at the site.
2. Submit a work plan, to define the vertical and horizontal extent of contamination.
3. Submit a time schedule. The proposed activities must be completed within 6 to 8 weeks of plan approval.
4. A California Registered Geologist or Civil Engineer or Certified Engineering Geologist with five years soils or hydrogeologic experience shall direct and conduct these investigations and properly sign off the final report to be accepted and approved.
5. Prepare and submit a Site Health and Safety Plan (SHSP).
6. Excavated soils may be a hazardous waste and are not suitable for fill material or disposal on-site. Contaminated soils must be manifested, transported, and disposed of pursuant to chapter 6.5, California Health and Safety Code, unless evidence presented indicates that disposal is proper at a less restricted facility. Copies of completed manifests or other appropriate evidence indicating legal disposal shall be submitted to this office.

If you have any questions regarding this matter, please contact Inspector Josef R. Solares at (818) 238-3475.

Thank you for your cooperation.

Michael W. Davis
Chief of Fire Department

By 
Josef R. Solares, Inspector
Underground Tank Unit

cc: Mr. Al Novak, State Water Resources Control Board, Los Angeles Region
Mr. Kwang Lee, State Water Resources Control Board, Los Angeles Region

Jergens.795

**EMCON**

3300 N. San Fernando Boulevard • Burbank, California 91504 • (818) 841-1160 • Fax (818) 846-9280

September 20, 1995
Project 2349-600.001

Inspector Josef R. Solares
Underground Tank Unit
City of Burbank Fire Department
353 East Olive Avenue
Burbank, California 91502-1282

Re: Workplan for Additional Site Investigation and Remediation
Former Andrew Jergens Facility
99 West Verdugo Avenue, Burbank, California

Dear Inspector Solares:

EMCON, on behalf of the Andrew Jergens Company (Jergens), is submitting this workplan for additional investigation and remediation at the former Jergens facility at 99 West Verdugo Avenue, in Burbank, California (Figure 1). This workplan is being submitted in response to Jergen's request and to a letter from the City of Burbank Fire Department (CBFD) dated July 11, 1994.

BACKGROUND

The site is located within the City of Burbank and is bordered by Verdugo Avenue to the southeast, Flower Street to the southwest, and by Olive Street and the Southern Pacific Railroad tracks to the northwest and southwest, respectively. The approximately 4.9 acre site was formerly occupied by a facility owned and operated by Jergens from the 1920s until 1992. The facility was used to manufacture soap and associated products and has been decommissioned. The buildings have been demolished (Figures 2 and 3).

SITE DIVESTMENT ACTIVITIES

Tank Closure

The report prepared by Jergen's former consultant, Jack K. Bryant Engineers, Inc. (J.K. Bryant) documents the excavation and removal of eight underground storage tanks (USTs) from the site during February and March of 1995 (J.K. Bryant, July 6, 1995). This report was submitted by J.K. Bryant to the CBFD on behalf of Jergens. The following discussion is summarized from the J.K. Bryant report.



On February 16, 1995, tanks 1 through 4 and associated product line piping were excavated and removed. Soil samples collected from the base of the excavation of tanks 1, 2, and 3 did not contain detectable concentrations of total recoverable petroleum hydrocarbons (TRPH) using U.S. EPA Method 418.1 or benzene, toluene, ethylbenzene, and total xylenes (BTEX) using U.S. EPA Method 8020 (Table 1). Soil samples collected from beneath tank 4 did not contain detectable concentrations of TPH or total extractable petroleum hydrocarbons using U.S. EPA Method 8015M. Samples collected beneath the product lines associated with tank 4 were reported to be impacted with TRPH concentrations ranging from 53 to 76 milligrams per kilogram (mg/kg).

The soil from the excavation of tanks 1, 2, and 3 was stockpiled at the southeastern corner of the site (Figure 3). The soil was initially segregated into two separate stockpiles, and were subsequently consolidated into one stockpile. Grab samples designated as stockpile #1 and #2 were collected from the two original stockpiles, and a third sample was later collected from the stockpile of consolidated material (Plastic lined #1). The highest concentration of TPH reported for a stockpile sample was 680 mg/kg (Table 1). It is EMCON's understanding that the soil excavated during the removal of tank 4 was used as backfill of the tank 4 excavation.

On March 8 and 22, 1995, four USTs (tanks 5 through 8) were excavated and removed from the north-central portion of the site (Figure 2). Soil samples collected beneath tanks 5, 6, and 8 were reported to be impacted with TRPH concentrations ranging from 16,000 to 35,000 mg/kg (Table 1). Soil excavated during the removal of tank 5 was stockpiled and covered with polyethylene sheeting, and the tank 5, 6, 7, 8 excavation was backfilled the excavated soils.

Well Abandonment

On February 24, 1995, EMCON provided oversight of the abandonment of three vadose zone monitoring wells located on the site. The former well locations are shown on Figure 3. The well abandonment was performed using a truck-mounted, hollow-stem auger drill rig to overdrill each well to at least the total depth of the well and remove the well materials including well casing, well screen, sand pack, and seal. The well located between the former diesel USTs and the former clarifier was approximately 7.5 feet deep, with 5 feet of screen and 2 feet of blank casing. The wells near the former ethanol UST ~~(tank 4)~~ were approximately 40 feet deep, with 35 feet of screen and 5 feet of blank casing.

Upon removal of the well materials, the boreholes were backfilled with either bentonite grout or Enviroplug to approximately 1 foot below grade. The well materials and rinseate

water from deconning the augers were contained in 55-gallon DOT-approved drums. The drums were labeled with the materials contained and the date generated, and were stored onsite pending characterization and disposal.

Preliminary Site Assessment Activities

In February and March, 1995, EMCON conducted a preliminary site assessment to delineate the extent of soil impacted by petroleum hydrocarbons associated with the former aboveground and underground storage tanks (tanks 4 through 8), sump, and clarifier. On February 24, 1995, soil boring EB-1, located in the vicinity of the former aboveground gasoline tank (tank 4), was drilled to a depth of approximately 15 feet below grade (Figure 3). This work was conducted by Jergens in response to a request from a potential buyer of the property. Soil samples were collected at 5 foot depth intervals labeled, and transported under proper chain-of-custody documentation in a chilled container to a state-certified analytical laboratory. The samples were analyzed for TPH as gasoline by U.S. EPA Method 8015 (Modified). TPH was not detected at concentrations above the laboratory method reporting limit in samples collected from the boring EB-1 (Table 2). The analytical report and chain-of-custody documentation are presented in Attachment 3.

On April 28, 1995, soil borings B-1 through B-3 were drilled in the vicinity of the tank 5, 6, 7, and 8 excavation. The boring locations are illustrated on Figure 2, and the boring logs are included in Attachment 4. Soil samples from borings B-1 through B-3 were collected at approximately 5-foot depth intervals and analyzed for hydrocarbon scan/fuel characterization and BTEX by U.S. EPA Methods 8015 (Modified) and 8020, respectively. No TPH or benzene concentrations were reported at concentrations above method reporting limits in the soil samples (Table 2).

Borings B-4 and B-5 were drilled at the location of the former clarifier and sump. Soil samples collected from borings B-4 and B-5 were analyzed for hydrocarbon scan/fuel characterization, volatile organic compounds, base neutral/acid semivolatile organic compounds (semi-VOCs), semivolatiles, hexavalent chrome, and pH. This work was conducted by Jergens in response to a request from a potential buyer of the property. The analytical methods used are listed on the analytical reports presented in Attachment 4. Concentrations of TPH, VOCs, semi-VOCs, and hexavalent chromium were not detected in the soil samples collected from boring B-5 (Table 2). Concentrations of TPH of 3,000 and 1,800 mg/kg were detected in the soil samples collected from boring B-4 at depths of 5 and 10 feet, respectively. Trace concentrations of three VOCs were also detected in these samples. These results indicate that hydrocarbons are present in the soil in the vicinity of the former clarifier.

The field procedures for drilling and sampling soil borings EB-1, and B-1 through B-5 are included in Attachment 2. The analytical results and chain-of-custody documentation are included in Attachments 3 and 4. The analytical results are summarized in Table 2.

Soil Disposal

A total of approximately 350 cubic yards of soil was generated during the removal of tanks 1, 2, and 3. The soil was stockpiled on site and covered with plastic sheeting pending final characterization (J.K. Bryant, July 6, 1995).

On March 8, 1995, EMCON personnel collected 19 soil samples, SP-1 through SP-19, from this stockpile (Figure 3). The samples were collected approximately 2 feet below the stockpile surface and were retained in 4-ounce glass jars, sealed with Teflon lined plastic caps, labeled with the date, depth, sampler's initials and sample identification number. The soil samples were also field screened for VOCs by headspace analysis using a photoionization detector (PID) calibrated to 100 parts per million by volume (ppmv) isobutylene gas. At each sample location, approximately 200 grams of soil was placed in a sealable plastic bag. After the soil was allowed to equilibrate for approximately 2 minutes, the probe tip of the PID was inserted into the bag. Elevated vapor concentrations were not detected in the nineteen samples that were screened.

The samples were then placed in a chilled insulated container, and delivered to Golden State/CAS, a state-certified analytical laboratory, along with appropriate chain-of-custody documentation. The soil samples were analyzed for TPH as gasoline and diesel by U.S. EPA Method 8015 (Modified), and for BTEX by U.S. EPA Method 8020. In addition, the sample with the highest TPH was analyzed for total lead by U.S. EPA Method 3050/6010. The certified analytical reports and chain-of-custody documentation are presented in Appendix 5.

On June 29, 1995, EMCON, on behalf of Jergens, submitted an application to the Regional Water Quality Control Board (RWQCB) for a waste discharge requirements (WDR) permit. The application discussed that the approximately 350 cubic yard stockpile had been generated during the tank 1, 2, and 3 excavation, and that EMCON proposed to backfill the tank excavation with these soils. The application included a discussion of the soil sampling and the analytical results. The application was submitted to the RWQCB as required by the RWQCB Order 91-93, "General Waste Discharge Requirements for Discharge of Non-Hazardous Contaminated Soils and Other Wastes in Los Angeles River and Santa Clara River Basins", also known as WDRs. On July 28, 1995, the RWQCB issued a WDR for use of the stockpiled soils as backfill material at the site (Attachment 6).

Inspector Josef R. Solares

September 20, 1995

Page 5

Project 2349-600.001

On August 24, Erin O'Connell of EMCON notified Josef Solares of the CBFD that the WDR had been obtained from the RWQCB, in response to the CBFD letter's "Additional Requirements" Number 6 requesting that appropriate evidence indicating legal disposal of the excavated soils be submitted to the CBFD (CBFD, July 11, 1995). The CBFD was also notified that EMCON would be preparing the workplan for additional investigation and remediation.

On September 7, Inspector Solares and Erin O'Connell of EMCON met at the CBFD offices to discuss the site history and the proposed workplan. Inspector Solares agreed to review the field procedures and analytical results for the above work if it was presented in the requested workplan. Inspector Solares also stated that the submittal of this workplan was overdue and that the CBFD was preparing to write Jergens another letter. Ms. O'Connell said that the workplan would be submitted to Jergens for their review during the week of September 11, and that Jergens would be notified that the CBFD was expecting the workplan.

PROPOSED WORKPLAN

The workplan for additional investigation and remediation of the site includes drilling and sampling of one additional soil boring in the tank 5, 6, and 8 location to determine the depth of impacted soils. If the impacted soils are within approximately 30 feet of the existing grade, the soils will be excavated and stockpiled. Confirmation soil samples will be collected on the base of the excavation and along the sidewalls. In addition, the impacted soils beneath the former clarifier location will be excavated. The proposed work will be conducted consistent with the CBFD closure guidelines (Method #2, Post Removal Procedures). A representative of the CBFD will be notified of the start date and time of the field activities associated with this workplan at least 48 hours prior to starting the work.

Task 1 - Prefield Activities

On behalf of Jergens, EMCON will contract with and schedule an excavator and operator to excavate the impacted soils beneath tanks 5, 6, 7, and 8, and the clarifier (Figures 2 and 3). EMCON will also obtain a Rule 1166 Monitoring permit from the South Coast Air Quality Management District. In addition, EMCON will also notify the City of Burbank Fire Department prior to conducting the field work.

Task 2 - Preparation of Site Health and Safety Plan

A site-specific health and safety plan for the proposed work has been developed and is included in Attachment 7. A copy of the plan will be present on site during the field activities.

Task 3 - Field Activities

One soil boring, EB-2, will be drilled to an approximate depth of 40 feet in the footprint of the tank 5, 6, and 8 excavation. Soil samples will be collected at 5-foot depth intervals. The drilling and sampling procedures used will be the same as previously referenced in Attachment 2. The samples will be analyzed for hydrocarbon scan/fuel characterization and BTEX. The samples will not be analyzed for VOCs or CAM Metals as the seven samples previously collected in the vicinity did not contain detectable concentrations of VOCs or CAM Metals greater than the total threshold limit concentrations (TTLCs).

EMCON will oversee and direct the excavation of the impacted soils beneath tanks 5, 6, and 8, and the clarifier, to the total depth of impacted soils or a maximum depth of approximately 30 feet below ground surface. EMCON will perform Rule 1166 air monitoring during the excavation work consistent with the South Coast Air Quality Management District guidelines. EMCON will collect up to 10 soil samples from the sidewalls and base of the tank excavation and up to 3 soil samples from the sidewalls and base of the clarifier excavation. EMCON will segregate the impacted soils and clean soils using the air monitoring, respectively, and place the impacted soils on Visqueen plastic. The stockpiles will also be covered with Visqueen plastic.

The confirmatory soil samples collected from the tank 5, 6, and 8 excavation will be analyzed for hydrocarbon scan/fuel characterization and BTEX. Rule 1166 monitoring will be conducted during the excavation activities. Photographs of the excavation, sampling, and stockpiling activities will be taken. The stockpiles will be sampled and analyzed for characterization and disposal.

Task 4 - Tank 1, 2, and 3 Excavation Backfill

The tank 1, 2, and 3 excavation has been open since February 1995. Six samples (1A, 1B, 2A, 2B, 3A, and 3B), collected beneath tanks 1, 2, and 3, did not contain detectable concentrations of TRPH (Table 1). Six additional samples (WTN, WTS, MTN, MTS, ETN, and ETS) did not contain detectable concentrations of TPH (Table 1). The CBFD letter dated July 11, 1995 did not request additional work in the vicinity of this excavation.

Inspector Josef R. Solares
September 20, 1995
Page 7

Project 2349-600.001

EMCON, on behalf of Jergens, proposes to backfill this excavation. The approximately 350 cubic yards of soil stockpiled adjacent to the excavation have been approved by the RWQCB as suitable materials for backfill and the WDR permit is included in Attachment 6. Additional soils will be imported from off site as needed to backfill the excavation to the approximate current grade.

Task 5 - Tank 5, 6, and 8 Excavation Backfill

The analytical results of the samples collected from the stockpiles generated during the excavation, will be used to characterize these soils for disposal. If the soils meet the Cbfd and RWQCB requirements for use as on-site backfill, the soil will be used as backfill for the tank 5, 6, and 8 excavation. If the analytical results are such that the soils must be transported and disposed of off site, manifests or other documentation of appropriate disposal will be submitted to the Cbfd in the summary report.

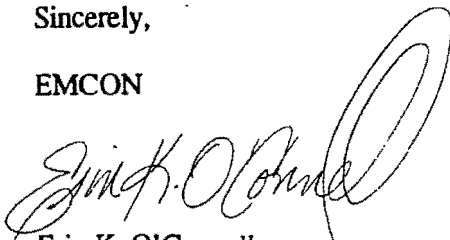
Task 6 - Preparation of Summary Report

EMCON will prepare a report summarizing the site history, field activities, and analytical results, and present conclusions and recommendations for the site. This report will include site maps showing soil sample, boring, and excavation locations. The report will also include the chain-of-custody documentation and certified analytical reports from the laboratory.

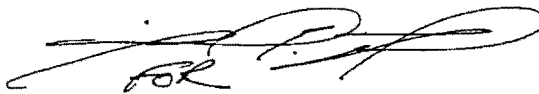
This workplan has been prepared consistent with current and generally accepted environmental consulting principles and practices that are within the limitations described in Attachment 8. The proposed schedule for this workplan is included in Attachment 9. If you have any questions or require additional information, please contact Erin O'Connell at (818) 841-1160, ext. 316.

Sincerely,

EMCON



Erin K. O'Connell
Project Geologist



Sally W. Bilodeau
Director of Hazardous Waste Services

Attachments: References

- Table 1 - Summary of Soil Analytical Results - Petroleum Hydrocarbons and BTEX
- Table 2 - Summary of Soil Analytical Results - Soil Borings
- Table 3 - Summary of Soil Analytical Results - Metals
- Table 4 - Summary of Soil Analytical Results - Volatile Organic Compounds
- Figure 1 - Site Location Map
- Figure 2 - Former UST Locations and Soil Sample Locations - Western Portion of Site
- Figure 3 - Former UST Locations and Soil Sample Locations - Eastern Portion of Site
- Attachment 1 - Boring Logs EB-1, and B-1 through B-5
- Attachment 2 - Drilling and Sampling Procedures
- Attachment 3 - Boring EB-1 Analytical Results and Chain-of-Custody Documentation
- Attachment 4 - Boring B-1 through B-5 Analytical Results and Chain-of-Custody Documentation
- Attachment 5 - Stockpile Sample Analytical Report and Chain-of-Custody Documentation
- Attachment 6 - Waste Discharge Requirements Permit Dated July 28, 1995
- Attachment 7 - Health and Safety Plan
- Attachment 8 - Limitations
- Attachment 9 - Proposed Site Activity Schedule

REFERENCES

CBFD, July 11, 1995, Request for Workplan, Former Jergens Facility, 99 West Verdugo Avenue, Burbank, California: City of Burbank Fire Department, Burbank, California

J.K. Bryant, June 6, 1995, UST Closure Report for 99 West Verdugo Avenue, Burbank, California: Jack K. Bryant Engineers, Torrance, California.

EMCON, June 29, 1995, Application for Facility Waste Discharge for Backfilling Diesel-Impacted Soil, Former Andrew Jergens Facility, 99 Verdugo Avenue, Burbank, California: EMCON, Burbank, California.

TABLES

TABLE 1
Summary of Soil Analytical Results
Petroleum Hydrocarbons and BTEX
The Andrew Jergens Facility
99 West Verdugo, Burbank, California

Sample ID	Sample Date	Sample Depth	TPH (Gas) (mg/Kg)	TPH (Diesel) (mg/Kg)	TRPH (mg/Kg)	Extractable Petroleum Hydrocarbon Finger Print				Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total Lead (mg/Kg)	Lab
						TPH (Total) (mg/Kg)	C8-C12 (Gasoline) (mg/Kg)	C13-C23 (Diesel) (mg/Kg)	C24-C40 (Motor Oil) (mg/Kg)						
EPA Method			8015m	8015m	418.1	8015M				8020 (BTEX)				3050/6010	
Method Reporting Limit (MRL)			0.1	10	10	10	10	10	10	0.005	0.005	0.005	0.015	5	
1A	2/16/95	15'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
1B	2/16/95	15'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
2A	2/16/95	15'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
2B	2/16/95	17'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
3A	2/16/95	15'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
3B	2/16/95	16'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
4A	2/16/95	20'	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--	STS
4B	2/16/95	20'	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--	STS
5A	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5B	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5C	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5D	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5E	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5F	2/16/95	8'	--	--	76	--	--	--	--	ND	ND	ND	ND	--	STS
5G	2/16/95	8'	--	--	53	--	--	--	--	ND	ND	ND	ND	--	STS
5H	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5I	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5J	2/16/95	8'	--	--	57	--	--	--	--	ND	ND	ND	ND	--	STS
5K	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
6	2/16/95	11'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
WTN	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
WTS	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
MTN	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
MTS	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
ETN	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
ETS	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
EB-1	2/24/95	1'	ND***	--	--	--	--	--	--	--	--	--	--	--	CAS
EB-1	2/24/95	5'	ND***	--	--	--	--	--	--	--	--	--	--	--	CAS
EB-1	2/24/95	10'	ND***	--	--	--	--	--	--	--	--	--	--	--	CAS
EB-1	2/24/95	15'	ND***	--	--	--	--	--	--	--	--	--	--	--	CAS
STOCKPILE#1	2/14/95	--	--	--	--	680	116	552	8	ND	0.025	0.029	0.21	--	STS
STOCKPILE #2	2/14/95	--	--	--	--	110	3	104	2	ND	ND	ND	0.13	--	STS
PLASTIC LINED STOCKPILE	2/14/95	--	--	--	--	230	29	195	2	ND	ND	0.011	0.13	--	STS

TABLE 1
Summary of Soil Analytical Results
Petroleum Hydrocarbons and BTEX
The Andrew Jergens Facility
99 West Verdugo, Burbank, California

Sample ID	Sample Date	Sample Depth	TPH (Gas) (mg/Kg)	TPH (Diesel) (mg/Kg)	TRPH (mg/Kg)	Extractable Petroleum Hydrocarbon Finger Print				Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total Lead (mg/Kg)	Lab
						TPH (Total) (mg/Kg)	C8-C12 (Gasoline) (mg/Kg)	C13-C23 (Diesel) (mg/Kg)	C24-C40 (Motor Oil) (mg/Kg)						
EPA Method			8015m	8015m	418.1	8015M				8020 (BTEX)				3050/6010	
Method Reporting Limit (MRL)			0.1	10	10	10	10	10	10	0.005	0.005	0.005	0.015	5	
TANK 5A	3/8/95	14.5'	--	--	35,000	9,800	660	6,100	3,000	ND	1.5	ND	5.4	--	STS
TANK 5B	3/8/95	13.5'	--	--	26,000	8,100	590	4,800	2,700	ND	ND	ND	0.34	--	STS
TANK 6A	3/8/95	13.5'	--	--	19,000	7,600	580	4,600	2,500	1.1	8.0	4.2	21	--	STS
TANK 7	3/22/95	8.5'	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	STS
TANK 8	3/22/95	14'	--	--	16,000	4,360	750	2,010	1,600	1.2	15	8.0	37.5	--	STS
8A	3/22/95	8.5'	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	STS
8B	3/22/95	8.5'	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	STS
SP-1	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-2	3/8/95	--	*14(10)	**40	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-3	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-4	3/8/95	--	ND(10)	**76	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	17	CAS
SP-5	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-6	3/8/95	--	ND(10)	**54	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-7	3/8/95	--	ND(10)	**53	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-8	3/8/95	--	ND(10)	**28	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-9	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-10	3/8/95	--	ND(10)	**56	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-11	3/8/95	--	ND(10)	**18	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-12	3/8/95	--	ND(10)	**40	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-13	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-14	3/8/95	--	ND(10)	**47	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-15	3/8/95	--	ND(10)	**28	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-16	3/8/95	--	ND(10)	**50	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-17	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-18	3/8/95	--	ND(10)	**35	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-19	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS

Notes:

ND = Not detected at or above the method reporting limit. Method reporting limit is reported above unless specified in parenthesis.

-- = Not analyzed

* = Result indicates hydrocarbons detected in the time range of C4-C12.

** = Result indicates hydrocarbons detected in the time range of C12-C24.

*** = Samples were analyzed for EPA Methods 5030/8015m.

STS = Southland Technical Services, Inc.

CAS = Columbia Analytical Services, Inc.

TPH = Total Petroleum Hydrocarbons

TRPH = Total Recoverable Petroleum Hydrocarbons

QA/QC: _____

TABLE 2
Summary of Soil Analytical Results - Soil Borings
Former Jergens Facility
99 W. Verdugo Avenue, Burbank, California

Boring I.D.	Sample Date	Sample Depth (ft.)	TPH-FC ⁽¹⁾ (mg/Kg)	Benzene ⁽²⁾ (mg/Kg)	Toluene ⁽²⁾ (mg/Kg)	Ethyl- benzene ⁽²⁾ (mg/Kg)	Total Xylenes ⁽²⁾ (mg/Kg)	VOC ⁽³⁾ (mg/Kg)	Semi- VOC's ⁽⁴⁾ (mg/Kg)	Hex Cr ⁽⁵⁾	pH ⁽⁶⁾
Method Detection Limit (MDL)			10	0.0005	0.0005	0.0005	0.002	**	**	2	NA
EB-1	2/24/95	1'	--	NA	NA	NA	NA	NA	NA	NA	NA
	2/24/95	5'	--	NA	NA	NA	NA	NA	NA	NA	NA
	2/24/95	10'	--	NA	NA	NA	NA	NA	NA	NA	NA
	2/24/95	15'	--	NA	NA	NA	NA	NA	NA	NA	NA
B-1	4/28/95	5'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	10'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	15'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	20'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	25'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	30'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	35'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	40'	--	--	--	--	--	NA	NA	NA	NA
B-2	4/28/95	5'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	10'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	15'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	20'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	25'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	30'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	35'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	40'	--	--	--	--	--	NA	NA	NA	NA
B-3	4/28/95	5'	--	--	--	0.0041	0.033	NA	NA	NA	NA
	4/28/95	10'	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/28/95	15'	--	--	--	0.0028	0.027	NA	NA	NA	NA
	4/28/95	20'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	25'	--	--	--	--	--	NA	NA	NA	NA

TABLE 2
Summary of Soil Analytical Results - Soil Borings
 Former Jergens Facility
 99 W. Verdugo Avenue, Burbank, California

Boring I.D.	Sample Date	Sample Depth (ft.)	TPH-FC ⁽¹⁾ (mg/Kg)	Benzene ⁽²⁾ (mg/Kg)	Toluene ⁽²⁾ (mg/Kg)	Ethyl- benzene ⁽²⁾ (mg/Kg)	Total Xylenes ⁽²⁾ (mg/Kg)	VOC ⁽³⁾ 8260 (mg/Kg)	Semi- VOC's ⁽⁴⁾ (mg/Kg)	Hex Cr ⁽⁵⁾	pH ⁽⁶⁾
Method Detection Limit (MDL)			10	0.0005	0.0005	0.0005	0.002	**	**	2	NA
B-3	4/28/95	30'	--	--	--	--	--	NA	NA	NA	NA
(Cont.)	4/28/95	35'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	40'	--	--	--	--	--	NA	NA	NA	NA
Clarifier	4/28/95	5'	3,000*	NA	NA	NA	NA	3.7(tr) Trichlorofluoromethane	--	--	10.2
B-4		10'	1,800*	NA	NA	NA	NA	4.3(tr) Xylenes, 50 Acetone	--	--	8.6
Sump	4/28/95	5'	--	NA	NA	NA	NA	--	--	--	7.8
B-5	4/28/95	10'	--	NA	NA	NA	NA	--	--	--	7.2
	4/28/95	15'	--	NA	NA	NA	NA	--	--	--	8.5

Notes:

Analyzed by Golden State/CAS Laboratories, Inc., Canoga Park, California

-- = Not detected at or above the method detection limit shown above.

NA = Not analyzed.

NS = Not sampled.

* = Hydrocarbon Range = C8->C30. The chromatogram indicates the presence of a hydrocarbon fill mixture eluting within the diesel and motor-oil range.

** = Various Method Detection Limits are reported. See Certified Analytical Results.

(tr) = Trace Level

(1) Hydrocarbon Scan/Fuel Characterization represents a hydrocarbon scan C₄ thru C₃₀ hydrocarbons analyzed EPA Method Modified 8015/California DHS LUFT Method.

(2) Analyzed using EPA Method 8020.

(3) Volatile Organic Compounds analyzed using EPA Method 8260.

(4) Base Neutral/Acid Semivolatile Organic Compounds analyzed using EPA Methods 3550/8270.

(5) Analyzed using EPA Method 9045.

(6) Analyzed using EPA Method 9060/7196A.

TABLE 3
Summary of Soil Analytical Results
Volatile Organic Compounds
The Andrew Jergens Facility
99 West Verdugo, Burbank, California

Sample ID	Sample Date	Depth	Volatile Organic Compounds (GC/MS)																																									
			Acetone	Acetone	Acrylonitrile	Benzene	Bromo-dichloroethane	Bromoform	Bromochloroethane	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	2-Chloroethyl Vinyl Ether	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorobromomethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethane	Trans-1,2-Dichloroethane	1,2-Dichloropropane	Cis-1,3-Dichloropropene	Trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	Methylene Chloride	4-Methyl-2-Pentanone	Styrene	1,1,2,2-Tetrachloroethane	Tetrachloroethane	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride	Total Xylenes	
EPA Method			8240																																									
Method Reporting Limit (MRL)			50	50	50	5	5	5	5	50	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	50	10	50	5	5	5	5	5	5	5	5	5	15		
*Method Reporting Limit (MRL)			0.050	0.005	0.005	0.005	0.005	0.050	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.050	0.010	0.050	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
TANK 5A	3/8/95	14.5	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	ND	ND	ND	ND	ND	ND	10	ND	ND	11	ND	ND	ND	22	
TANK 5B	3/8/95	13.5	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	50	ND	ND	ND	ND	ND	ND	25		
TANK 6A	3/8/95	13.5	ND	ND	ND	204	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,170	ND	ND	ND	ND	ND	4,760	ND	ND	ND	ND	ND	ND	8,890			
*TANK 7	3/22/95	8.5	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
*TANK 8	3/22/95	14	ND	-	-	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.20	ND	ND	ND	ND	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND	1.19	
*8A	3/22/95	8.5	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
*8B	3/22/95	8.5	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

ND = Not detected at or above the method report limit shown above.

* = Method detection limit shown on secondary scale.

-- = Not analyzed

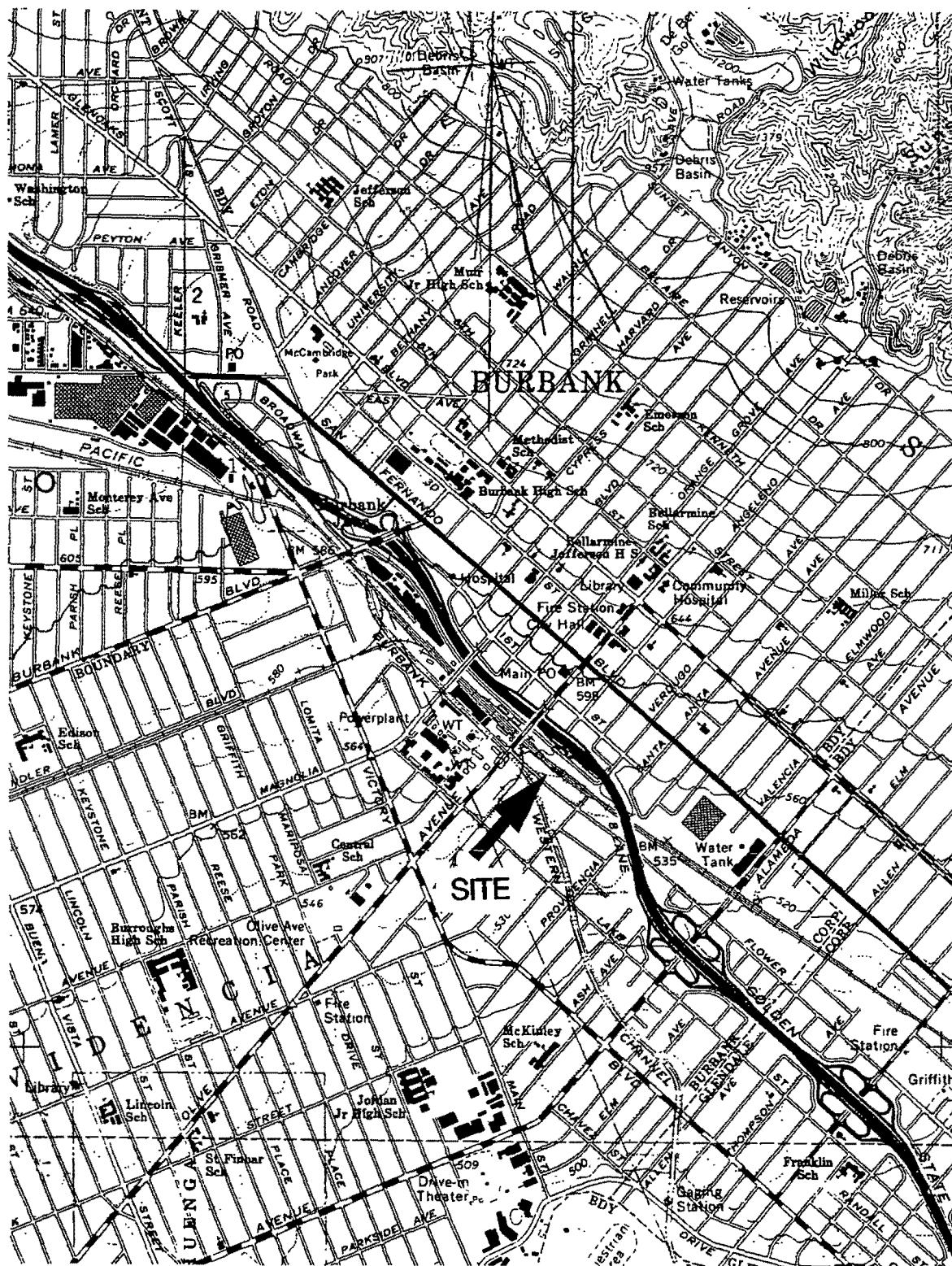
TABLE 4
Summary of Soil Analytical Results
Metals

The Andrew Jergens Facility
99 West Verdugo, Burbank, California

Sample ID	Sample Date	Depth	CAM Metals																	Lab
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
EPA Method			7040	7060	7080	7090	7130	7190	7200	7210	7420	7470	7480	7520	7740	7760	7840	7910	7950	
Method Reporting Limit (MRL)			10	0.05	5.0	2.5	2.5	2.5	2.5	2.5	2.5	0.01	5.0	2.5	0.05	2.5	2.5	10	2.5	
TANK5A	3/8/95	14.5	45	ND	600	ND	ND	18	32	32	11	0.02	ND	17	ND	ND	5.4	40	39	STS
TANK5B	3/8/95	13.5	37	ND	660	ND	ND	16	29	29	10	0.01	ND	14	ND	ND	4.6	27	32	STS
TANK6A	3/8/95	13.5	40	ND	930	ND	ND	23	35	32	12	0.02	ND	15	ND	ND	3.9	34	33	STS
TANK 7	3/22/95	8.5	5.0	ND	610	ND	ND	10.4	9.5	13.8	8.5	ND	ND	18.5	ND	ND	5.5	29.5	43	STS
TANK 8	3/22/95	14	5.8	ND	620	ND	ND	10.5	10.8	23.7	10.7	0.02	ND	21.2	ND	ND	6.5	21.6	11	STS
8A	3/22/95	8.5	5.3	ND	470	ND	ND	10	8.8	20	8.4	ND	ND	16.8	ND	ND	3.7	22.2	8.2	STS
8B	3/22/95	8.5	5.5	ND	500	ND	ND	11	8.3	28	8.2	ND	ND	18.4	ND	ND	5.4	32.2	40	STS

ND = Not detected at or above the method reporting limit shown above.

FIGURES



EMCON

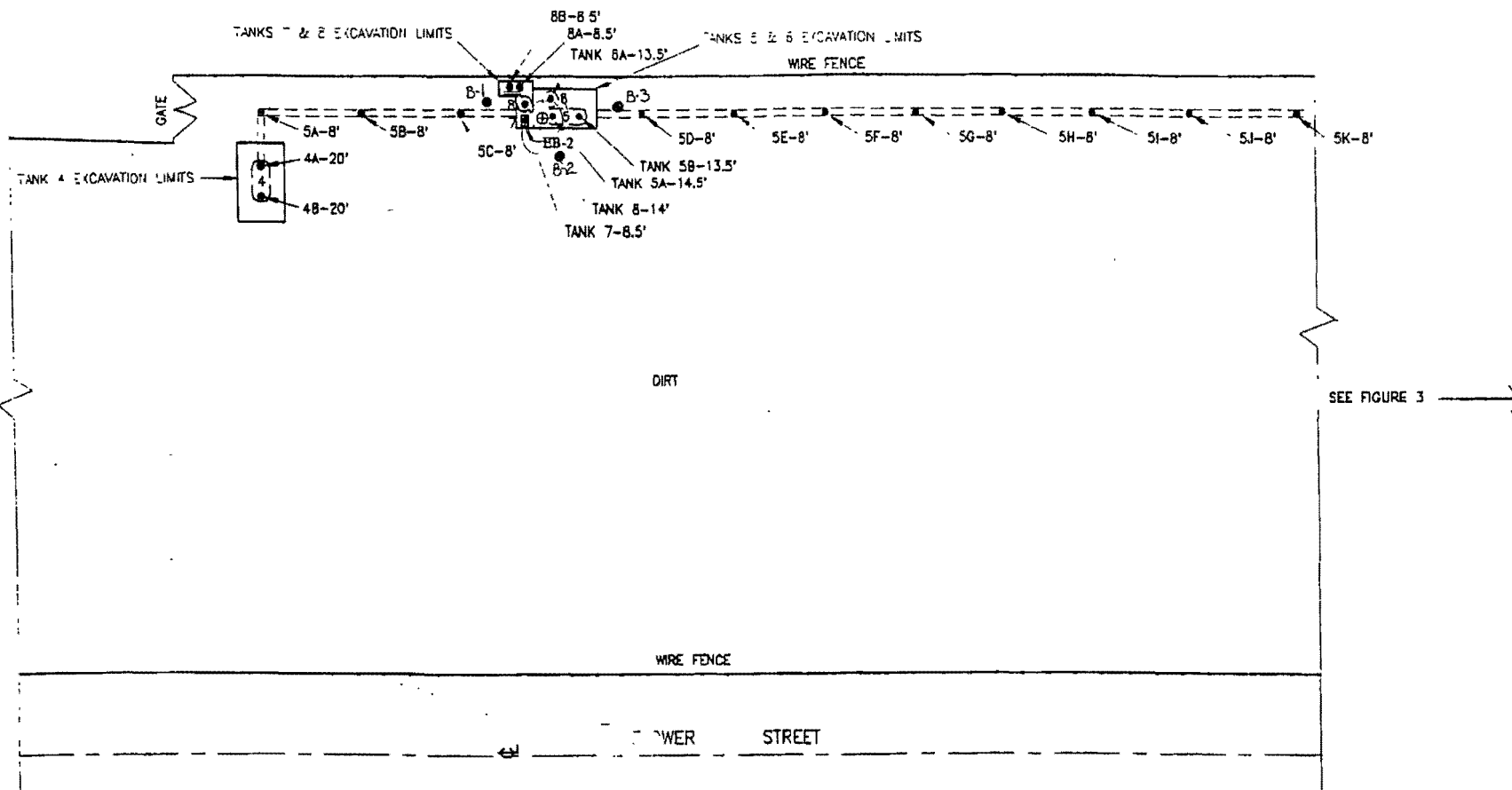
FORMER JERGENS FACILITY
99 WEST VERDUGO
BURBANK, CALIFORNIA

SITE LOCATION MAP

FIGURE

1

PROJECT NO.
2349-600.01



NOTES:

1. NOT A SURVEYED MAP
- ⊗ SOIL BORING
- ⊕ PROPOSED SOIL BORING

LEGEND:

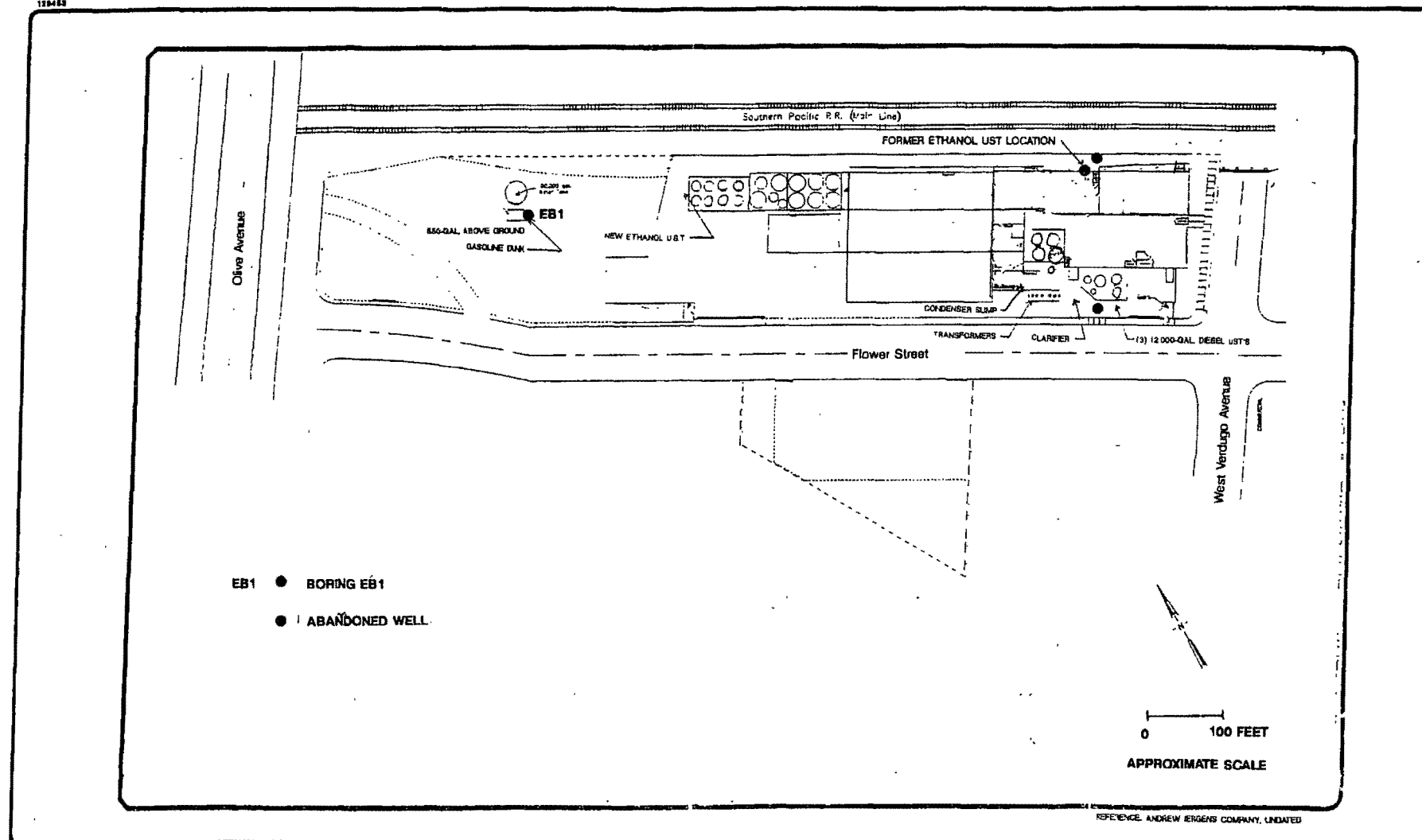
- = SOIL SAMPLE LOCATION
- , ○, ⊖ = FORMER TANK LOCATION
- TANK 7-8.5' = SAMPLE TANK-7 AT 8.5 FEET BELOW GROUND SURFACE
- , =, = = = FORMER PIPING LOCATION



SCALE: 1" = 40'

SEE FIGURE 3 →

120483

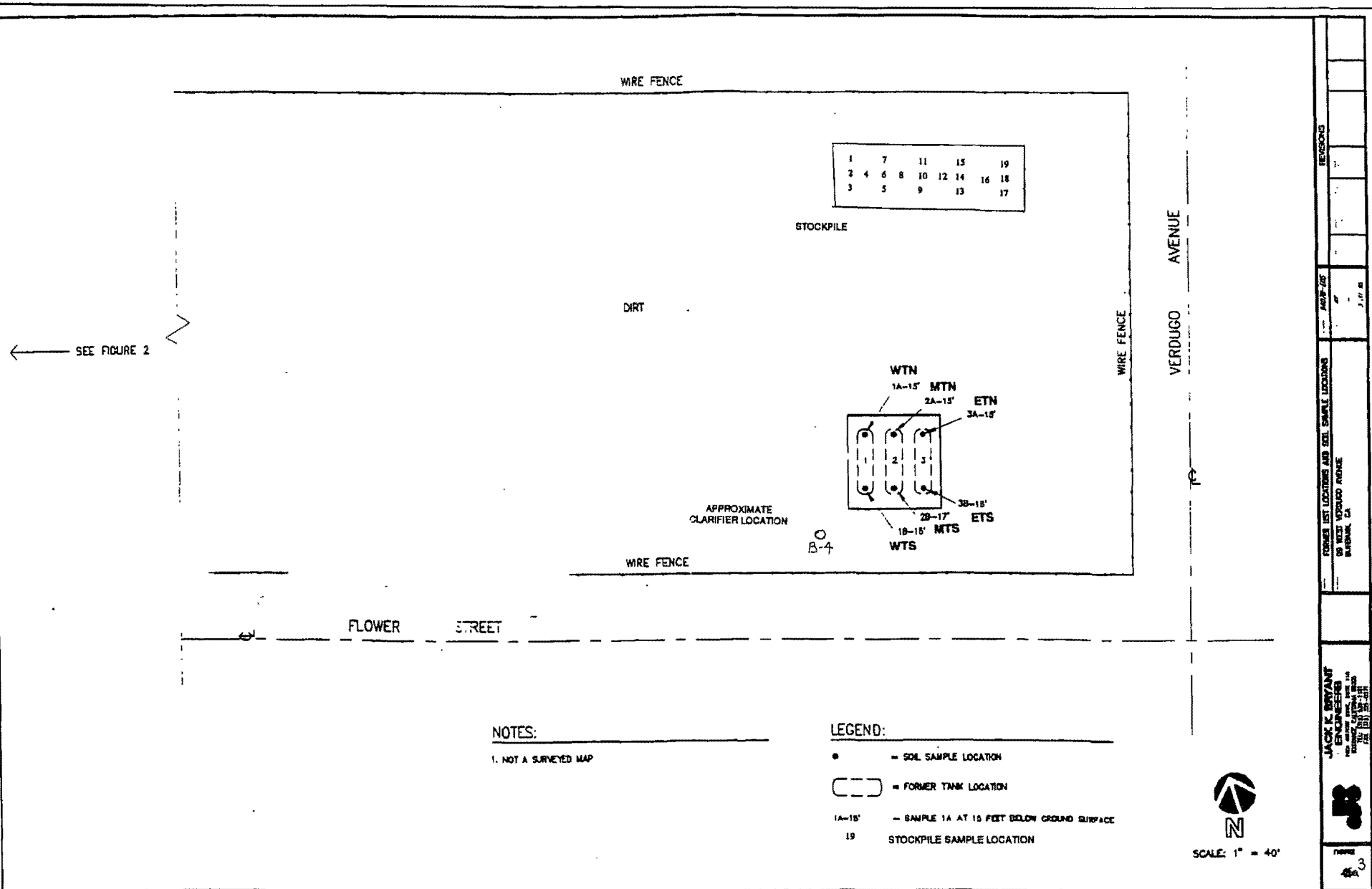


ANDREW JERGEN'S COMPANY.
99 WEST VERDUGO AVENUE
BURBANK, CALIFORNIA

SAMPLE LOCATIONS AND ABANDONED WELL LOCATIONS

FIGURE

3



ATTACHMENT 1
BORING LOGS EB-1, AND B-1 THROUGH B-5

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. EB-1

PROJECT NAME Jergens

PAGE 1 OF 1

BY Chris Bonds DATE 2/24/95

SURFACE ELEV. ft.

PID	Blows/6" and or Pressure (PSI)	Penetration blows 6"	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.3		10 10 19					SAND TO GRAVELLY SAND (SP), yellowish brown (10YR, 5/6); 5% non plastic fines; 40% fine sand; 30% medium sand; 15% coarse sand; 10% fine gravel; medium dense; moist; no odor.	
0.0		9 15 16		5			SILTY SAND (SM), dark yellowish brown (10YR, 3/4); 10 non plastic fines; 70% fine sand; 20% medium sand; trace of coarse sand; dense; moist; no odor.	
0.9		12 19 21		10			SILTY SAND TO SAND (SM-SP), yellowish brown (10YR, 5/6); 10% non plastic fines; 40% fine sand; 40% medium sand; 10% coarse sand; trace of fine gravel; dense; moist; no odor.	
0.3		7 18 17		15			SILTY SAND (SM), yellowish brown (10YR, 5/6); 20% non plastic fines; 30% fine sand; 30% medium sand; 10% coarse sand; trace of fine gravel; dense; moist; no odor.	
BORING TERMINATED AT 15 FEET. TARGET DEPTH ATTAINED.								



REMARKS

Drilled using continous-flight, hollow-stem auger equipment. Samples were collected every 5 feet using a modified California split-spoon sampler equipped with brass liners and driven by a 140-lb down-hole hammer. Sample color was described using Munsell soil color chart. The boring was converted into a 15-foot depth, 8-inch diameter, vadose-zone groundwater monitoring well.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-1

PROJECT NAME Andrew Jergens Company

PAGE 1 OF 3

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	1.5	10 10 14		5			SILTY SAND (SM), very dark grayish brown (10Y, 3/2); 30% low-plasticity fines; 60% fine; 10% medium; trace coarse-grained sand, subangular to subrounded; medium dense; damp; no odor.	
2.0	1.5	6 7 12		10			@10': olive brown (2.5Y, 4/3); 35% low-plasticity fines; 65% fine-grained sand; medium dense; damp; no odor.	
2.1	1.5	7 8 15		15			@15': light olive brown (2.5Y, 5/3); 20% non to low-plasticity fines; 70% fine; 10% medium-grained sand; medium dense; damp; no odor.	
				20			SAND with SILT (SP-SM), described on next page.	



REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-1

PROJECT NAME Andrew Jergens Company

PAGE 2 OF 3

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
6.6	1.5	15 16 19					SAND with SILT (SP-SM) , light olive brown (2.5Y, 5/4); 10% non to low-plasticity fines; 70% fine; 5% medium; 10% coarse-grained sand, subangular; 5% fine gravel (to 0.25" dia.), subangular; dense; damp; no odor.	
0.0	1.5	14 18 26		25			SAND (SP) , light olive brown (2.5Y, 5/4); 5% nonplastic fines; 55% fine; 20% medium; 10% coarse-grained sand, subangular to subrounded; 10% fine gravel (to 0.5" dia.), angular to subrounded; trace coarse gravel (to 3" long), subangular; dense; damp; no odor.	
0.0	1.0	21 28 29		30			@30': light olive brown (2.5Y, 5/4); 5% nonplastic fines; 70% fine; 15% medium; 5% coarse-grained sand, subangular to subrounded; 5% fine gravel (to 0.75" dia.), subangular; dense; damp; no odor.	
0.0	1.0	18 21 23		35			SANDY SILT (ML) , light olive brown (2.5Y, 5/4); 80% non to low-plasticity fines; 20% fine-grained sand; trace medium sand; dense; damp; no odor.	
				40			SAND (SP) , described on next page.	



EMCON

REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-1

PROJECT NAME Andrew Jergens Company

PAGE 3 OF 3

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
--	0.7	20 50/6"					<p>SAND (SP), light olive brown (2.5Y, 5/4); 5% nonplastic fines; 70% fine; 15% medium; 5% coarse-grained sand, subangular to subrounded; 5% fine gravel; no odor.</p> <p>BORING TERMINATED AT 41 FBG.</p>	
				45				
				50				
				55				
				60				

REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.



EMCON

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-2

PROJECT NAME Andrew Jergens Company

PAGE 1 OF 3

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	1.5	9 12 15		5			SILTY SAND (SM), very dark grayish brown (10YR, 3/2); 40% non to low-plasticity fines; 60% fine-grained sand; trace coarse sand, subangular; trace fine gravel (to 0.75" dia.), subangular; medium dense; damp; weathered oil odor.	
0.0	1.5	6 7 12		10			@10': light olive brown (2.5Y, 5/4); 20% medium-plasticity fines; 75% fine; 5% medium; trace coarse-grained sand, subangular; medium dense; damp; no odor. @11.2': Fine gravel (to 0.5" dia.), angular.	
0.0	1.5	6 8 9		15			@15': 15% low-plasticity fines; 80% fine-grained sand; trace medium sand; trace fine gravel (to 0.75" dia.), subrounded; medium dense; damp; no odor.	
				20				



REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01
PROJECT NAME Andrew Jergens Company
BY M. Kuncir DATE 4/28/95

BORING NO. B-2
PAGE 2 OF 3
SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	0.7	7 9 19					@20': As above.	
0.0	1.2	15 21 17		25			SAND (SP), olive brown (2.5Y, 4/3); trace nonplastic fines; 80% fine; 10% medium; 5% coarse-grained sand, subangular; 5% fine gravel (to 0.5" dia.), subangular to subrounded; dense; damp; no odor.	
0.0	1.0	12 17 18		30			@30': As above.	
0.0	1.5	19 20 21		35			@35': light olive brown (2.5Y, 5/3); trace nonplastic fines; 50% fine; 30% medium; 15% coarse-grained sand, subangular to subrounded; 5% fine gravel (to 1" dia.), subangular to subrounded; dense; damp; no odor.	
				40				



REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-2

PROJECT NAME Andrew Jergens Company

PAGE 3 OF 3

BY M. Kuncir

DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	1.5	18 21 25					@40': SAND (SP), continued.	
				45			BORING TERMINATED AT 41.5 FBG.	
				50				
				55				
				60				



REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-3

PROJECT NAME Andrew Jergens Company

PAGE 1 OF 3

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
3.0	1.0	8 11 12		5			SILTY SAND (SM), dark grayish brown (2.5Y, 4/2); 15% medium-plasticity fines; 85% fine-grained sand; medium dense; damp; no odor.	
--	0	6 11 14		10			@10': No recovery.	
--	0.5	9 7 18		15			@15': light olive brown (2.5Y, 5/4); 15% low-plasticity fines; 85% fine-grained sand; trace fine gravel (to 0.5" dia.), subrounded; medium dense; damp; no odor.	
				20			SAND (SP), described on next page.	



REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-3

PROJECT NAME Andrew Jergens Company

PAGE 2 OF 3

BY M. Kuncir

DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	0.5	15 16 20					SAND (SP), light olive brown (2.5Y, 5/4); 5% nonplastic fines; 75% fine; 20% medium-grained sand; very dense; damp; no odor.	
	0	50/6"		25				
0.0	1.5	12 15 18					@26': light olive brown (2.5Y, 5/4); 5% nonplastic fines; 80% fine; 10% medium; 5% coarse-grained sand, subangular; trace fine gravel (to 0.75" dia.), subangular; very dense; damp; no odor.	
0.0	1.0	20 50/6"		30			SILTY SAND (SM), olive brown (2.5Y, 4/3); 15% nonplastic fines; 85% fine-grained sand; micaceous; very dense; damp; no odor.	
0.0	0.7	12 16 18		35			@35': 20% low to medium-plasticity fines; 80% fine-grained sand; dense; moist; no odor.	
				40			SAND with SILT (SP-SM), described on next page.	



REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-3

PROJECT NAME Andrew Jergens Company

PAGE 3 OF 3

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetra- tion (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	1.2	10 15 28					SAND with SILT (SP-SM), olive brown (2.5Y, 4/3); 10% nonplastic fines; 90% fine-grained sand; dense; damp; no odor.	
				45			BORING TERMINATED AT 41.5 FBG.	
				50				
				55				
				60				



REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-4

PROJECT NAME Andrew Jergens Company

PAGE 1 OF 1

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS DEPTH IN FT.	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	0.7	4 6 11	5		SILTY SAND (SM), olive gray (5Y, 4/2); 30% low-plasticity fines; 70% fine-grained sand; medium dense; moist; no odor.	
--	0.5	50/6"	10		SAND (SP), light olive brown (2.5Y, 5/4); 5% nonplastic fines; 20% medium; 5% coarse-grained sand, subangular; 5% fine gravel (to 0.75" dia.), subangular; very dense; moist; no odor. BORING TERMINATED AT 10.5 FBG.	
			15			
			20			



REMARKS

Boring drilled to 10.5 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-5

PROJECT NAME Andrew Jergens Company

PAGE 1 OF 1

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	1.0	10 16 20		5			SAND (SP), light brownish gray (2.5Y, 6/2); 5% nonplastic fines; 70% fine; 15% medium; 5% coarse-grained sand, subangular; 5% fine gravel (to 0.5" dia.), subangular to subrounded; concrete and brick fragments present; dense; damp; no odor.	
0.0	1.5	13 20 20		10			SILTY SAND (SM), dark grayish brown (2.5Y, 4/2); 15% low-plasticity fines; 85% fine-grained sand; trace medium and coarse sand; dense; moist; no odor.	
0.0	1.5	15 15 17		15			SAND (SP), olive brown (2.5Y, 4/3); trace nonplastic fines; 65% fine; 30% medium; 5% coarse-grained sand, subangular; trace fine gravel (to 0.25" dia.); dense; moist; no odor. SILTY SAND (SM), dark grayish brown (2.5Y, 4/2); 40% medium-plasticity fines; 60% fine-grained sand; dense; moist; no odor.	
							BORING TERMINATED AT 16.5 FBG.	
				20				



EMCON

REMARKS

Boring drilled to 16.5 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

ATTACHMENT 2
DRILLING AND SAMPLING PROCEDURES

ATTACHMENT 2

DRILLING AND SAMPLING PROCEDURES

Six (6) exploratory soil borings (EB-1, and B-1 through B-5) were drilled in February and April, 1995, using a CME-75 and a B-61 drill rig equipped with continuous-flight, hollow-stem auger drilling equipment. The auger flights were steam-cleaned prior to drilling each boring. Each borehole was initially hand-augered to an approximate depth of 5 feet below grade to minimize the potential of encountering buried pipelines, electrical lines, and other subsurface obstructions.

Undisturbed soil samples were collected at 5-foot-depth intervals using a 2.5-inch outside diameter, modified California split-spoon sampler equipped with brass liners. The sampler was driven 18 inches into the soil ahead of the lead auger using a 140-pound slide hammer with a 30 inch drop. The middle sample sleeve was retained and sealed with Teflon tape and plastic end caps. The samples were placed in a chilled insulated container and delivered to Golden State/CAS, a state certified analytical laboratory along with appropriate chain-of-custody documentation. A detailed log of each boring was recorded by a EMCON geologist from the soil samples and auger return material using the Unified Soil Classification System (ASTM D1586). Upon completion of sampling, the borings were backfilled to the ground surface with bentonite chips hydrated in 3 foot lifts. The exploratory boring logs are included in Appendix 1.

Soil samples were field screened for volatile organic compounds (VOCs) by headspace analysis using a photoionization detector (PID) calibrated to 100 parts per million by volume (ppmv) isobutylene gas. For each sample interval, approximately 200 grams of soil was placed in a sealable plastic bag. After the soil was allowed to equilibrate for approximately 20 minutes, the probe tip of the PID was inserted into the bag. The highest measured concentrations of volatile organic vapors within the bag was recorded for each sample interval on the boring log.

Soil cuttings and auger rinseate generated during drilling activities were contained in DOT-approved 55-gallon steel drums pending characterization and disposal. The drums were removed from the site on September 15, 1995, by Belshire Environmental Services, Inc. A copy of the waste disposal manifest will be included in the final report.

ATTACHMENT 3

**BORING EB-1 ANALYTICAL RESULTS
AND CHAIN-OF-CUSTODY DOCUMENTATION**



March 7, 1995

Sally Bilodeau
EMCON Associates
3300 North San Fernando Blvd.
Burbank, CA 91504

Re: Jergens Facility/Project #2349-600.01

Dear Sally:

Enclosed are the results of the samples submitted to our lab on February 27, 1995. For your reference, these analyses have been assigned our service request number L951484.

All analyses were performed in accordance with our laboratory's quality assurance program. Golden State / CAS is certified for environmental analyses by the California Department of Health Services (Certificate # 1296/Expiration - August 1996).

Please call if you have any questions.

Respectfully submitted,

Golden State/CAS Laboratories, Inc.

Elaine R. Thomas for

Elaine R. Thomas
Project Chemist

ET/iz

**FIELD SERVICES
COPY**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON Associates
Project: Jergens Facility/#2349-600.01
Sample Matrix: Soil

Service Request: L951484
Date Collected: 2/24/95
Date Received: 2/27/95
Date Extracted: NA

TPH as Gasoline
EPA Methods 5030/Modified 8015/California DHS LUFT Method
Units: mg/Kg (ppm)

Sample Name	Lab Code	Date Analyzed	MRL	Result
EB-1 @ 1'	L951484-001	3/1/95	0.1	ND
EB-1 @ 5'	L951484-002	3/1/95	0.1	ND
EB-1 @ 10'	L951484-003	3/1/95	0.1	ND
EB-1 @ 15'	L951484-004	3/1/95	0.1	ND
Method Blank	L951484-MB	3/1/95	0.1	ND

NA Not Applicable
TPH Total Petroleum Hydrocarbons
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit.

Approved By:

Eydie Schwartz

Date:

3/7/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Associates
Project: Jergens Facility/#2349-600.01
Sample Matrix: Soil

Service Request: L951484
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
TPH as Gasoline
EPA Methods 5030/Modified 8015/California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery <i>a,a,a</i> -Trifluorotoluene
EB-1 @ 1'	L951484-001	82
EB-1 @ 5'	L951484-002	72
EB-1 @ 10'	L951484-003	75
EB-1 @ 15'	L951484-004	79
Method Blank	L951484-MB	104

CAS Acceptance Limits:

60-120

NA

Not Applicable

Approved By:

Eydie Schwartz

Date:

3/7/95

6925 CANOGA AVENUE,
CANOGA PARK, CA 91304
818 587 5550 ■ FAX # 818 587 5555

Chain of Custody Record Analytical Services Request

CLIENT NAME EMCON						ADDRESS/PHONE/FAX 3700 N San Fernando Blvd. Burbank, CA 918-941-1160								ANALYSES REQUESTED						GSAS JOB # L951484	
PROJECT NAME/LOCATION 99 West Verdugo Ave. Jergens facility Burbank, CA						CLIENT PROJECT NO. 2314-WOE.OI															
PROJECT MANAGER Sally Bibocheau						SAMPLER(S) CHRIS BONDS						P.O. NO.									
SAMPLE IDENTIFICATION NO.		DATE	TIME	LAB SAMPLE NO.	SAMPLE MATRIX	FOS-M Gaslin											REQUESTED TURNAROUND TIME	REMARKS			
EIP-1 @ 1'		2/24/95	1155	L951484-1	silt	X											Oday				
" @ 5'		"	1205	2	"	X											"				
" @ 10' -		"	1212	3	"	X											"				
" @ 15'		"	1217	4	"	X											"				
RELINQUISHED BY: (Signature) <i>[Signature]</i>				DATE 2/27/95		TIME 7:30 A.		RECEIVED BY: (Signature) <i>[Signature]</i>						DATE 2-27-95		TIME 0730					
RELINQUISHED BY: (Signature)				DATE		TIME		RECEIVED BY: (Signature)						DATE		TIME					
RELINQUISHED BY: (Signature)				DATE		TIME		RECEIVED BY: (Signature)						DATE		TIME					
SEND INVOICE TO:								WHITE COPY: Accompanies Samples YELLOW COPY: Sampler													

ATTACHMENT 4

**BORING B-1 THROUGH B-5 ANALYTICAL RESULTS
AND CHAIN-OF-CUSTODY DOCUMENTATION**



May 11, 1995

Sally Bilodeau
EMCON Associates
3300 North San Fernando Blvd.
Burbank, CA 91504

Re: **Andrew Jergens Co., 99 W. Verdugo Ave., Burbank**

Dear Sally:

Enclosed are the results of the samples submitted to our lab on May 1, 1995. For your reference, these analyses have been assigned our service request number L952192.

All analyses were performed in accordance with our laboratory's quality assurance program. Golden State / CAS is certified for environmental analyses by the California Department of Health Services (Certificate # 1296/Expiration - August 1996).

Please call if you have any questions.

Respectfully submitted,

Golden State/CAS Laboratories, Inc.

Eyde Schwartz for

Elaine R. Thomas
Project Chemist

ET/sjt

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

LABORATORY REPORT FORM FOR PETROLEUM HYDROCARBONS

Laboratory Name: Golden State / CAS Laboratories, Inc.

Address: 6925 Canoga Avenue, Canoga Park, CA 91303

Telephone: (818) 587-5550

Laboratory Certification (ELAP) No.: 1296

Expiration Date: August 1996

Laboratory Director's Name: Dr. B. Gene Bennett

Laboratory Director's Signature: *Eydie Schwartz for Dr. B. Gene Bennett*

Client: EMCON Associates

Project No.: Andrew Jergens Co., 99 W. Verdugo Ave., Burbank

Analytical Method: EPA Method 8020

Date Sampled: 4/28/95

Date Received: 5/1/95

Date Reported: 5/9/95

Sample Matrix: Soil

Chain of Custody Received: Yes

Sample Condition:

--Sample Headspace Description (%): 0% Headspace

--Sample Container Material: Brass Tube

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

LABORATORY REPORT FORM FOR PETROLEUM HYDROCARBONS

Laboratory Name: Golden State / CAS Laboratories, Inc.

Address: 6925 Canoga Avenue, Canoga Park, CA 91303

Telephone: (818) 587-5550

Laboratory Certification (ELAP) No.: 1296

Expiration Date: August 1996

Laboratory Director's Name: Dr. B. Gene Bennett

Laboratory Director's Signature: *Eydie Schwartz for Dr. B. Gene Bennett*

Client: California Environmental

Project No.: Andrew Jergens Co., 99 W. Verdugo Ave., Burbank

Analytical Method: EPA Method 8260

Date Sampled: 4/28/95

Date Received: 5/1/95

Date Reported: 5/9/95

Sample Matrix: Soil

Chain of Custody Received: Yes

Sample Condition:

--Sample Headspace Description (%): 0% Headspace

--Sample Container Material: Brass Tube

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED		5/1/95	5/1/95	5/1/95	5/1/95
DILUTION FACTOR		1	1	1	1
LAB SAMPLE I.D.		L952192-002	L952192-003	L952192-004	L952192-005
CLIENT SAMPLE I.D.		B-1,10'	B-1,15'	B-1,20'	B-1,25'
BTEX (EPA 8020)	MDL				
Benzene	0.0005	ND	ND	ND	ND
Toluene	0.0005	ND	ND	ND	ND
Ethylbenzene	0.0005	ND	ND	ND	ND
Total Xylenes	0.002	ND	ND	ND	ND
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	87	87	91

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: _____

Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED		5/1/95	5/1/95	5/1/95	5/1/95
DILUTION FACTOR		1	1	1	1
LAB SAMPLE I.D.		L952192-006	L952192-007	L952192-008	L952192-009
CLIENT SAMPLE I.D.		B-1,30'	B-1,35'	B-1,40'	B-2,5'
BTEX (EPA 8020)	MDL				
Benzene	0.0005	ND	ND	ND	ND
Toluene	0.0005	ND	ND	ND	ND
Ethylbenzene	0.0005	ND	ND	ND	ND
Total Xylenes	0.002	ND	ND	ND	ND
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	84	88	86

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: _____

Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED			5/1/95	5/2/95	5/2/95	5/2/95
DILUTION FACTOR			1	1	1	1
LAB SAMPLE I.D.			L952192-010	L952192-011	L952192-012	L952192-013
CLIENT SAMPLE I.D.			B-2,10'	B-2,15'	B-2,20'	B-2,25'
BTEX (EPA 8020)	MDL					
Benzene	0.0005		ND	ND	ND	ND
Toluene	0.0005		ND	ND	ND	ND
Ethylbenzene	0.0005		ND	ND	ND	ND
Total Xylenes	0.002		ND	ND	ND	ND
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	79	94	89	89

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: _____

Eydie Schwartz

Date: _____

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED		5/1/95	5/2/95	5/3/95	5/1/95
DILUTION FACTOR		1	1	1	1
LAB SAMPLE I.D.		L952192-MB	L952192-MB	L952192-MB	L952192-001
CLIENT SAMPLE I.D.		Method Blank	Method Blank	Method Blank	B-1,5'
BTEX (EPA 8020)	MDL				
Benzene	0.0005	ND	ND	ND	ND
Toluene	0.0005	ND	ND	ND	ND
Ethylbenzene	0.0005	ND	ND	ND	ND
Total Xylenes	0.002	ND	ND	ND	ND
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	107	107	106

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: _____

Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Hydrocarbon Scan/Fuel Characterization¹
EPA Method Modified 8015/California DHS LUFT Method
Units: mg/Kg (ppm)

Sample Name	Lab Code	Date Analyzed	MRL	Result	Fuel Characterization	Hydrocarbon Range
B-3,15'	L952192-018	5/6/95	10	ND	None	NA
B-3,20'	L952192-019	5/6/95	10	ND	None	NA
B-3,25'	L952192-020	5/6/95	10	ND	None	NA
B-3,30'	L952192-021	5/6/95	10	ND	None	NA
B-3,35'	L952192-022	5/6/95	10	ND	None	NA
B-3,40'	L952192-023	5/6/95	10	ND	None	NA
B-4,5'	L952192-024	5/8/95	10	3000	*	C8 -> C30
B-4,10'	L952192-025	5/8/95	10	1800	*	C8 -> C30
B-5,5'	L952192-026	5/8/95	10	ND	None	NA
B-5,10'	L952192-027	5/6/95	10	ND	None	NA
B-5,15'	L952192-028	5/6/95	10	ND	None	NA
Method Blank	L952192-MB	5/5/95	10	ND	None	NA
Method Blank	L952192-MB	5/5/95	10	ND	None	NA

- ¹ Hydrocarbon Scan/Fuel Characterization represents a hydrocarbon scan C₄ thru C₃₀ hydrocarbons.
- MRL** Method Reporting Limit
- ND** None Detected at or above the method reporting limit
- NA** Not Applicable
- *** The chromatogram indicates the presence of a hydrocarbon fill mixture eluting within the diesel and motor-oil range.

Approved By:

Eydie Schwantz

Date:

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Base Neutral/Acid Semivolatile Organic Compounds
 EPA Methods 3550/8270
 Units: mg/Kg (ppm)

Sample Name:	B-4,5'	B-4,10'	B-5,5'
Lab Code:	L952192-024	L952192-025	L952192-026
Date Analyzed:	5/3/95	5/3/95	5/3/95

Base Neutral Analyte	MRL			
N-Nitrosodimethylamine	0.3	ND	ND	ND
Aniline	0.3	ND	ND	ND
Bis(2-chloroethyl) Ether	0.3	ND	ND	ND
1,2-Dichlorobenzene	0.3	ND	ND	ND
1,3-Dichlorobenzene	0.3	ND	ND	ND
1,4-Dichlorobenzene	0.3	ND	ND	ND
Bis(2-chloroisopropyl) Ether	0.3	ND	ND	ND
N-Nitrosodi-n-propylamine	0.3	ND	ND	ND
Hexachloroethane	0.3	ND	ND	ND
Nitrobenzene	0.3	ND	ND	ND
Isophorone	0.3	ND	ND	ND
Bis(2-chloroethoxy)methane	0.3	ND	ND	ND
1,2,4-Trichlorobenzene	0.3	ND	ND	ND
Naphthalene	0.3	ND	ND	ND
4-Chloroaniline	0.3	ND	ND	ND
Hexachlorobutadiene	0.3	ND	ND	ND
2-Methylnaphthalene	0.3	ND	ND	ND
Hexachlorocyclopentadiene	0.3	ND	ND	ND
2-Chloronaphthalene	0.3	ND	ND	ND
2-Nitroaniline	2	ND	ND	ND
Dimethyl Phthalate	0.3	ND	ND	ND
Acenaphthylene	0.3	ND	ND	ND
3-Nitroaniline	2	ND	ND	ND
Acenaphthene	0.3	ND	ND	ND
Dibenzofuran	0.3	ND	ND	ND
2,4-Dinitrotoluene	0.3	ND	ND	ND

MRL Method Reporting Limit.
ND None Detected at or above the method reporting limit.

Approved By: Eydie Schwartz Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Base Neutral/Acid Semivolatile Organic Compounds
 EPA Methods 3550/8270
 Units: mg/Kg (ppm)

Sample Name:	B-4,5'	B-4,10'	B-5,5'
Lab Code:	L952192-024	L952192-025	L952192-026
Date Analyzed:	5/3/95	5/3/95	5/3/95

Base Neutral Analyte	MRL			
2,6-Dinitrotoluene	0.3	ND	ND	ND
Diethyl Phthalate	0.3	ND	ND	ND
4-Chlorophenyl Phenyl Ether	0.3	ND	ND	ND
Fluorene	0.3	ND	ND	ND
4-Nitroaniline	2	ND	ND	ND
N-Nitrosodiphenylamine	0.3	ND	ND	ND
4-Bromophenyl Phenyl Ether	0.3	ND	ND	ND
Hexachlorobenzene	0.3	ND	ND	ND
Phenanthrene	0.3	ND	ND	ND
Anthracene	0.3	ND	ND	ND
Di-n-butyl Phthalate	0.3	ND	ND	ND
Fluoranthene	0.3	ND	ND	ND
Pyrene	0.3	ND	ND	ND
Butylbenzyl Phthalate	0.3	ND	ND	ND
3,3'-Dichlorobenzidine	0.3	ND	ND	ND
Benz(a)anthracene	0.3	ND	ND	ND
Bis(2-ethylhexyl) Phthalate	0.3	ND	ND	ND
Chrysene	0.3	ND	ND	ND
Di-n-octyl Phthalate	0.3	ND	ND	ND
Benzo(b)fluoranthene	0.3	ND	ND	ND
Benzo(k)fluoranthene	0.3	ND	ND	ND
Benzo(a)pyrene	0.3	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.3	ND	ND	ND
Dibenz(a,h)anthracene	0.3	ND	ND	ND
Benzo(g,h,i)perylene	0.3	ND	ND	ND
Pyridine	0.6	ND	ND	ND

MRL Method Reporting Limit.
ND None Detected at or above the method reporting limit.

Approved By: Eydie Schwartz Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Base Neutral/Acid Semivolatile Organic Compounds
 EPA Methods 3550/8270
 Units: mg/Kg (ppm)

Sample Name:	B-4,5'	B-4,10'	B-5,5'
Lab Code:	L952192-024	L952192-025	L952192-026
Date Analyzed:	5/3/95	5/3/95	5/3/95

Acid Analyte	MRL			
Phenol	0.3	ND	ND	ND
2-Chlorophenol	0.3	ND	ND	ND
Benzyl Alcohol	0.3	ND	ND	ND
2-Methylphenol	0.3	ND	ND	ND
3- and 4-Methylphenol ^a	0.3	ND	ND	ND
2-Nitrophenol	0.3	ND	ND	ND
2,4-Dimethylphenol	0.3	ND	ND	ND
Benzoic Acid	2	ND	ND	ND
2,4-Dichlorophenol	0.3	ND	ND	ND
4-Chloro-3-methylphenol	0.3	ND	ND	ND
2,4,6-Trichlorophenol	0.3	ND	ND	ND
2,4,5-Trichlorophenol	0.3	ND	ND	ND
2,4-Dinitrophenol	2	ND	ND	ND
4-Nitrophenol	2	ND	ND	ND
2-Methyl-4,6-dinitrophenol	2	ND	ND	ND
Pentachlorophenol	2	ND	ND	ND

MRL Method Reporting Limit.
ND None Detected at or above the method reporting limit.
^a Quantified as 4-Methylphenol.

Approved By: _____

Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Base Neutral/Acid Semivolatile Organic Compounds
 EPA Methods 3550/8270
 Units: mg/Kg (ppm)

Sample Name:	B-5,10'	B-5,15'	Method Blank
Lab Code:	L952192-027	L952192-028	L952192-MB
Date Analyzed:	5/3/95	5/3/95	5/3/95

Base Neutral Analyte	MRL			
N-Nitrosodimethylamine	0.3	ND	ND	ND
Aniline	0.3	ND	ND	ND
Bis(2-chloroethyl) Ether	0.3	ND	ND	ND
1,2-Dichlorobenzene	0.3	ND	ND	ND
1,3-Dichlorobenzene	0.3	ND	ND	ND
1,4-Dichlorobenzene	0.3	ND	ND	ND
Bis(2-chloroisopropyl) Ether	0.3	ND	ND	ND
N-Nitrosodi-n-propylamine	0.3	ND	ND	ND
Hexachloroethane	0.3	ND	ND	ND
Nitrobenzene	0.3	ND	ND	ND
Isophorone	0.3	ND	ND	ND
Bis(2-chloroethoxy)methane	0.3	ND	ND	ND
1,2,4-Trichlorobenzene	0.3	ND	ND	ND
Naphthalene	0.3	ND	ND	ND
4-Chloroaniline	0.3	ND	ND	ND
Hexachlorobutadiene	0.3	ND	ND	ND
2-Methylnaphthalene	0.3	ND	ND	ND
Hexachlorocyclopentadiene	0.3	ND	ND	ND
2-Chloronaphthalene	0.3	ND	ND	ND
2-Nitroaniline	2	ND	ND	ND
Dimethyl Phthalate	0.3	ND	ND	ND
Acenaphthylene	0.3	ND	ND	ND
3-Nitroaniline	2	ND	ND	ND
Acenaphthene	0.3	ND	ND	ND
Dibenzofuran	0.3	ND	ND	ND
2,4-Dinitrotoluene	0.3	ND	ND	ND

MRL Method Reporting Limit
ND None Detected at or above the method reporting limit.

Approved By: _____

Eydie Schwartz

Date: _____

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Base Neutral/Acid Semivolatile Organic Compounds
 EPA Methods 3550/8270
 Units: mg/Kg (ppm)

Sample Name:	B-5,10'	B-5,15'	Method Blank
Lab Code:	L952192-027	L952192-028	L952192-MB
Date Analyzed:	5/3/95	5/3/95	5/3/95

Base Neutral Analyte	MRL			
2,6-Dinitrotoluene	0.3	ND	ND	ND
Diethyl Phthalate	0.3	ND	ND	ND
4-Chlorophenyl Phenyl Ether	0.3	ND	ND	ND
Fluorene	0.3	ND	ND	ND
4-Nitroaniline	2	ND	ND	ND
N-Nitrosodiphenylamine	0.3	ND	ND	ND
4-Bromophenyl Phenyl Ether	0.3	ND	ND	ND
Hexachlorobenzene	0.3	ND	ND	ND
Phenanthrene	0.3	ND	ND	ND
Anthracene	0.3	ND	ND	ND
Di-n-butyl Phthalate	0.3	ND	ND	ND
Fluoranthene	0.3	ND	ND	ND
Pyrene	0.3	ND	ND	ND
Butylbenzyl Phthalate	0.3	ND	ND	ND
3,3'-Dichlorobenzidine	0.3	ND	ND	ND
Benz(a)anthracene	0.3	ND	ND	ND
Bis(2-ethylhexyl) Phthalate	0.3	ND	ND	ND
Chrysene	0.3	ND	ND	ND
Di-n-octyl Phthalate	0.3	ND	ND	ND
Benzo(b)fluoranthene	0.3	ND	ND	ND
Benzo(k)fluoranthene	0.3	ND	ND	ND
Benzo(a)pyrene	0.3	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.3	ND	ND	ND
Dibenz(a,h)anthracene	0.3	ND	ND	ND
Benzo(g,h,i)perylene	0.3	ND	ND	ND
Pyridine	0.6	ND	ND	ND

MRL Method Reporting Limit
ND None Detected at or above the method reporting limit.

Approved By: Eydie Schwartz Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Base Neutral/Acid Semivolatile Organic Compounds
 EPA Methods 3550/8270
 Units: mg/Kg (ppm)

Sample Name:	B-5,10'	B-5,15'	Method Blank
Lab Code:	L952192-027	L952192-028	L952192-MB
Date Analyzed:	5/3/95	5/3/95	5/3/95

Acid Analyte	MRL			
Phenol	0.3	ND	ND	ND
2-Chlorophenol	0.3	ND	ND	ND
Benzyl Alcohol	0.3	ND	ND	ND
2-Methylphenol	0.3	ND	ND	ND
3- and 4-Methylphenol ^a	0.3	ND	ND	ND
2-Nitrophenol	0.3	ND	ND	ND
2,4-Dimethylphenol	0.3	ND	ND	ND
Benzoic Acid	2	ND	ND	ND
2,4-Dichlorophenol	0.3	ND	ND	ND
4-Chloro-3-methylphenol	0.3	ND	ND	ND
2,4,6-Trichlorophenol	0.3	ND	ND	ND
2,4,5-Trichlorophenol	0.3	ND	ND	ND
2,4-Dinitrophenol	2	ND	ND	ND
4-Nitrophenol	2	ND	ND	ND
2-Methyl-4,6-dinitrophenol	2	ND	ND	ND
Pentachlorophenol	2	ND	ND	ND

MRL Method Reporting Limit.
ND None Detected at or above the method reporting limit.
^a Quantified as 4-Methylphenol.

Approved By: _____

Eydie Schwartz

Date: _____

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: NA

Inorganic Parameters
Units: mg/Kg (ppm)

Sample Name:	B-4,5'	B-4,10'	B-5,5'
Lab Code:	L952192-024	L952192-025	L952192-026
Date Analyzed:	5/5-10/95	5/5-10/95	5/5-10/95

Analyte	EPA Method	MRL			
pH (units)	9045	—	10.2	8.6	7.8
Hexavalent Chromium	3060/7196A	2	ND	ND	ND

MRL Method Reporting Limit
ND None Detected at or above the method reporting limit.
NA Not Applicable

Approved By: Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: NA

Inorganic Parameters
Units: mg/Kg (ppm)

Sample Name:	B-5,10'	B-5,15'	Method Blank
Lab Code:	L952192-027	L952192-028	L952192-MB
Date Analyzed:	5/5-10/95	5/5-10/95	5/5-10/95

Analyte	EPA Method	MRL			
pH (units)	9045	—	7.2	8.5	NA
Hexavalent Chromium	3060/7196A	2	ND	ND	ND

MRL Method Reporting Limit
ND None Detected at or above the method reporting limit.
NA Not Applicable

Approved By: _____

Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

Service Request: L952192
 Date Collected: 4/28/95
 Date Received: 5/1/95
 Date Extracted: NA

Volatile Organic Compounds
 EPA Method 8260
 Units: µg/L (ppb)

Analyte	MDL	Sample Name: Lab Code: *Date Analyzed: Dilution Factor:	Method Blank L952192-MB 5/4/95 1	B-4,5' L952192-024 5/4/95 1	B-4,10' L952192-025 5/4/95 1
Bromobenzene	1.8		ND	ND	ND
Bromochloromethane	0.6		ND	ND	ND
Bromodichloromethane	1.0		ND	ND	ND
Bromoform	0.7		ND	ND	ND
Bromomethane	0.7		ND	ND	ND
Carbon tetrachloride	1.0		ND	ND	ND
Chloroethane	0.9		ND	ND	ND
Chloroform	0.9		ND	ND	ND
Chloromethane	0.9		ND	ND	ND
Dibromochloromethane	0.9		ND	ND	ND
Dibromomethane	1.2		ND	ND	ND
Dichloromethane (Methylene Chloride)	2.0		ND	ND	ND
Dichlorodifluoromethane	2.5		ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	0.8		ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	0.9		ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.9		ND	ND	ND
trans-1,2-Dichloroethylene	1.0		ND	ND	ND
cis-1,2-Dichloroethylene	0.4		ND	ND	ND
1,2-Dichloropropane	0.8		ND	ND	ND
cis-1,3-Dichloropropylene	0.8		ND	ND	ND
trans-1,3-Dichloropropylene	0.7		ND	ND	ND
1,1,1,2-Tetrachloroethane	1.2		ND	ND	ND
1,1,2,2-Tetrachloroethane	1.2		ND	ND	ND
Tetrachloroethylene(PCE)	1.0		ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0		ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	0.8		ND	ND	ND
Trichloroethylene (TCE)	0.6		ND	ND	ND
1,2,3-Trichloropropane	2.6		ND	ND	ND
Trichlorofluoromethane	0.9		ND	3.7 (tr)	ND
Vinyl Chloride (VC)	0.9		ND	ND	ND
Benzene	0.6		ND	ND	ND
Chlorobenzene	0.8		ND	ND	ND
1,2-Dichlorobenzene	0.7		ND	ND	ND
1,3-Dichlorobenzene	0.6		ND	ND	ND
1,4-Dichlorobenzene	0.7		ND	ND	ND

(tr) Trace level
 NA Not Applicable
 MDL Method Detection Limit
 ND None Detected at or above detection limit
 * Date Analyzed using purge and trap technology (EPA Method 5030)

Approved By:

Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

Service Request: L952192
 Date Collected: 4/28/95
 Date Received: 5/1/95
 Date Extracted: NA

Volatile Organic Compounds
 EPA Method 8260
 Units: µg/L (ppb)

Analyte	MDL	Sample Name:	Method Blank	B-4,5'	B-4,10'
		Lab Code:	L952192-MB	L952192-024	L952192-025
		*Date Analyzed:	5/4/95	5/4/95	5/4/95
		Dilution Factor:	1	1	1
Ethyl benzene	0.9	ND	ND	ND	ND
Toluene	0.8	ND	ND	ND	ND
Total Xylenes	1.0	ND	4.3 (tr)	ND	ND
Acetone	10	ND	50	46 (tr)	ND
n-Butylbenzene	0.7	ND	ND	ND	ND
sec-Butylbenzene	0.8	ND	ND	ND	ND
tert-Butylbenzene	0.7	ND	ND	ND	ND
2-Chloroethylvinyl ether	5.0	ND	ND	ND	ND
2-Chlorotoluene	1.0	ND	ND	ND	ND
4-Chlorotoluene	2.4	ND	ND	ND	ND
1,3-Dichloropropane	1.0	ND	ND	ND	ND
2,2-Dichloropropane	1.1	ND	ND	ND	ND
1,1-Dichloropropylene	0.7	ND	ND	ND	ND
Ethylene dibromide (EDB)	1.0	ND	ND	ND	ND
Hexachlorobutadiene	0.9	ND	ND	ND	ND
Isopropylbenzene	1.0	ND	ND	ND	ND
p-Isopropyltoluene	0.6	ND	ND	ND	ND
Methyl Ethyl Ketone	7.5	ND	ND	ND	ND
Methyl Isobutyl Ketone	8.3	ND	ND	ND	ND
Naphthalene	1.4	ND	ND	ND	ND
n-Propylbenzene	1.0	ND	ND	ND	ND
Styrene	1.3	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.9	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.9	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.9	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.7	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	0.9	ND	ND	ND	ND
Surrogate	SPK CONC	ACP%	%RC	%RC	%RC
Pentafluorobenzene	50	70-130	96	123	105
Toluene-D ₈	50	88-110	92	92	88
4-Bromofluorobenzene	50	86-115	96	92	96

NA Not Applicable

MDL Method Detection Limit

ND None Detected at or above detection limit

SPK CONC = Spike Concentration; ACP% = Acceptable Range of Percent; %RC = % Recovery

* Date Analyzed using purge and trap technology (EPA Method 5030)

(tr) Trace level

Approved By: Eydie Schwartz Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

Service Request: L952192
 Date Collected: 4/28/95
 Date Received: 5/1/95
 Date Extracted: NA

Volatile Organic Compounds
 EPA Method 8260
 Units: µg/L (ppb)

Analyte	MDL	Sample Name: Lab Code: *Date Analyzed: Dilution Factor:	B-5,5' L952192-026 5/4/95 1	B-5,10' L952192-027 5/4/95 1	B-5,15' L952192-028 5/4/95 1
Bromobenzene	1.8		ND	ND	ND
Bromochloromethane	0.6		ND	ND	ND
Bromodichloromethane	1.0		ND	ND	ND
Bromoform	0.7		ND	ND	ND
Bromomethane	0.7		ND	ND	ND
Carbon tetrachloride	1.0		ND	ND	ND
Chloroethane	0.9		ND	ND	ND
Chloroform	0.9		ND	ND	ND
Chloromethane	0.9		ND	ND	ND
Dibromochloromethane	0.9		ND	ND	ND
Dibromomethane	1.2		ND	ND	ND
Dichloromethane (Methylene Chloride)	2.0		ND	ND	ND
Dichlorodifluoromethane	2.5		ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	0.8		ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	0.9		ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.9		ND	ND	ND
trans-1,2-Dichloroethylene	1.0		ND	ND	ND
cis-1,2-Dichloroethylene	0.4		ND	ND	ND
1,2-Dichloropropane	0.8		ND	ND	ND
cis-1,3-Dichloropropylene	0.8		ND	ND	ND
trans-1,3-Dichloropropylene	0.7		ND	ND	ND
1,1,1,2-Tetrachloroethane	1.2		ND	ND	ND
1,1,2,2-Tetrachloroethane	1.2		ND	ND	ND
Tetrachloroethylene(PCE)	1.0		ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0		ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	0.8		ND	ND	ND
Trichloroethylene (TCE)	0.6		ND	ND	ND
1,2,3-Trichloropropane	2.6		ND	ND	ND
Trichlorofluoromethane	0.9		ND	ND	ND
Vinyl Chloride (VC)	0.9		ND	ND	ND
Benzene	0.6		ND	ND	ND
Chlorobenzene	0.8		ND	ND	ND
1,2-Dichlorobenzene	0.7		ND	ND	ND
1,3-Dichlorobenzene	0.6		ND	ND	ND
1,4-Dichlorobenzene	0.7		ND	ND	ND

(tr) Trace level
 NA Not Applicable
 MDL Method Detection Limit
 ND None Detected at or above detection limit
 * Date Analyzed using purge and trap technology (EPA Method 5030)

Approved By:

Eydie Schwartz

Date:

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: NA

Volatile Organic Compounds
 EPA Method 8260
 Units: µg/L (ppb)

		Sample Name:	B-5,5'	B-5,10'	B-5,15'
		Lab Code:	L952192-026	L952192-027	L952192-028
		*Date Analyzed:	5/4/95	5/4/95	5/4/95
		Dilution Factor:	1	1	1
Analyte	MDL				
Ethyl benzene	0.9		ND	ND	ND
Toluene	0.8		ND	ND	ND
Total Xylenes	1.0		ND	ND	ND
Acetone	10		ND	ND	ND
n-Butylbenzene	0.7		ND	ND	ND
sec-Butylbenzene	0.8		ND	ND	ND
tert-Butylbenzene	0.7		ND	ND	ND
2-Chloroethylvinyl ether	5.0		ND	ND	ND
2-Chlorotoluene	1.0		ND	ND	ND
4-Chlorotoluene	2.4		ND	ND	ND
1,3-Dichloropropane	1.0		ND	ND	ND
2,2-Dichloropropane	1.1		ND	ND	ND
1,1-Dichloropropylene	0.7		ND	ND	ND
Ethylene dibromide (EDB)	1.0		ND	ND	ND
Hexachlorobutadiene	0.9		ND	ND	ND
Isopropylbenzene	1.0		ND	ND	ND
p-Isopropyltoluene	0.6		ND	ND	ND
Methyl Ethyl Ketone	7.5		ND	ND	ND
Methyl Isobutyl Ketone	8.3		ND	ND	ND
Naphthalene	1.4		ND	ND	ND
n-Propylbenzene	1.0		ND	ND	ND
Styrene	1.3		ND	ND	ND
1,2,3-Trichlorobenzene	0.9		ND	ND	ND
1,2,4-Trichlorobenzene	0.9		ND	ND	ND
1,2,4-Trimethylbenzene	0.9		ND	ND	ND
1,3,5-Trimethylbenzene	0.7		ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	10		ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	0.9		ND	ND	ND
Surrogate	SPK CONC	ACP%	%RC	%RC	%RC
Pentafluorobenzene	50	70-130	102	99	100
Toluene-D ₈	50	88-110	91	91	91
4-Bromofluorobenzene	50	86-115	96	97	96

NA Not Applicable

MDL Method Detection Limit

ND None Detected at or above detection limit

SPK CONC = Spike Concentration; ACP% = Acceptable Range of Percent; %RC = % Recovery

* Date Analyzed using purge and trap technology (EPA Method 5030)

(tr) Trace level

Approved By: Eydie Schwartz Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

Service Request No.: L952192

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Date Performed: 5/2/95
 Batch No.: K050195
 Lab Code: L952192-001

Analyte	Reporting Units	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP % MS	ACP RPD
Benzene	mg/Kg (ppm)	0.0200	0.0225	112	0.0230	115	2	39-150	25
Toluene	mg/Kg (ppm)	0.0200	0.0224	112	0.0229	114	2	46-148	25
Ethylbenzene	mg/Kg (ppm)	0.0200	0.0229	114	0.0234	117	2	32-160	25

II. Laboratory Quality Control Check Sample

Date Performed: 5/1/95
 Batch No.: K050195
 Lab Code: L952192-LCS

Analyte	Reporting Units	SPK CONC	Result	% Recovery	ACP %
Benzene	mg/Kg (ppm)	0.0200	0.0210	105	80-120
Toluene	mg/Kg (ppm)	0.0200	0.0211	106	80-120
Ethylbenzene	mg/Kg (ppm)	0.0200	0.0217	108	80-120

III. Calibration Standards

Analyte	INITIAL RF _{ave} Date: 2/21/95	% RSD ≤ 20%	DAILY RF Date: 5/1/95	% DIFF W/RF _{ave} ≤ ± 15%
Benzene	8.532 X 10 ⁻⁶	8	8.062 X 10 ⁻⁶	6
Toluene	8.876 X 10 ⁻⁶	9	8.550 X 10 ⁻⁶	4
Ethylbenzene	1.022 X 10 ⁻⁵	10	9.796 X 10 ⁻⁶	4
Total Xylenes	9.568 X 10 ⁻⁶	10	9.589 X 10 ⁻⁶	< 1

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By:

Eydie Schwartz

Date: 5/1/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Service Request No.: L952192
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

III. Calibration Standards

Analyte	INITIAL RF _{ave}	% RSD ≤ 20%	DAILY RF	% DIFF W/RF _{ave} ≤ ± 15%
	Date: 2/21/95		Date: 5/2/95	
Benzene	8.532×10^{-6}	8	8.704×10^{-6}	2
Toluene	8.876×10^{-6}	9	9.195×10^{-6}	4
Ethylbenzene	1.022×10^{-5}	10	1.048×10^{-5}	3
Total Xylenes	9.568×10^{-6}	10	1.031×10^{-5}	8

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By:

Eydie Schwartz

Date:

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON **Service Request No.:** L952192
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Date Performed: 5/3/95
Batch No.: K050395
Lab Code: L952192-013

Analyte	Reporting Units	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP % MS	ACP RPD
Benzene	mg/Kg (ppm)	0.0200	0.0185	92	0.0174	87	6	39-150	25
Toluene	mg/Kg (ppm)	0.0200	0.0186	93	0.0175	88	6	46-148	25
Ethylbenzene	mg/Kg (ppm)	0.0200	0.0192	96	0.0181	90	6	32-160	25

II. Laboratory Quality Control Check Sample

Date Performed: 5/3/95
Batch No.: K050395
Lab Code: L952192-LCS

Analyte	Reporting Units	SPK CONC	Result	% Recovery	ACP %
Benzene	mg/Kg (ppm)	0.0200	0.0211	106	80-120
Toluene	mg/Kg (ppm)	0.0200	0.0212	106	80-120
Ethylbenzene	mg/Kg (ppm)	0.0200	0.0219	110	80-120

III. Calibration Standards

Analyte	INITIAL RF _{ave} Date: 2/21/95	% RSD ≤ 20%	DAILY RF Date: 5/3/95	% DIFF W/RF _{ave} ≤ ± 15%
Benzene	8.532 X 10 ⁻⁶	8	7.807 X 10 ⁻⁶	8
Toluene	8.876 X 10 ⁻⁶	9	8.257 X 10 ⁻⁶	7
Ethylbenzene	1.022 X 10 ⁻⁵	10	9.412 X 10 ⁻⁶	8
Total Xylenes	9.568 X 10 ⁻⁶	10	9.248 X 10 ⁻⁶	3

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By: Eydie Schwartz Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
Hydrocarbon Scan/Fuel Characterization
EPA Method Modified 8015/California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery <i>p</i> -Terphenyl
B-1,5'	L952192-001	82
B-1,10'	L952192-002	54
B-1,15'	L952192-003	75
B-1,20'	L952192-004	93
B-1,25'	L952192-005	85
B-1,30'	L952192-006	79
B-1,35'	L952192-007	81
B-1,40'	L952192-008	85
B-2,5'	L952192-009	72
B-2,10'	L952192-010	53
B-2,15'	L952192-011	86
B-2,20'	L952192-012	83
B-2,25'	L952192-013	69
B-2,30'	L952192-014	93
B-2,35'	L952192-015	89
B-2,40'	L952192-016	78
B-3,5'	L952192-017	70

CAS Acceptance Limits: 50-140

NA Not Applicable

Approved By: Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
Hydrocarbon Scan/Fuel Characterization
EPA Method Modified 8015/California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery <i>p</i> -Terphenyl
B-3,15'	L952192-018	74
B-3,20'	L952192-019	70
B-3,25'	L952192-020	81
B-3,30'	L952192-021	70
B-3,35'	L952192-022	80
B-3,40'	L952192-023	83
B-4,5'	L952192-024	*
B-4,10'	L952192-025	*
B-5,5'	L952192-026	85
B-5,10'	L952192-027	89
B-5,15'	L952192-028	91
Method Blank	L952192-MB	100
Method Blank	L952192-MB	119
Matrix Spike	L952192-8MS	116
Duplicate Matrix Spike	L952192-8DMS	88
Matrix Spike	L952192-23MS	62
Duplicate Matrix Spike	L952192-23DMS	90

CAS Acceptance Limits: 50-140

NA

Not Applicable

*

Not Applicable because of the sample matrix. The gas chromatogram showed target components that interfered with determination of the surrogate.

Approved By:

Eydie Schwartz

Date:

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Service Request No.: L952192
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

I Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Date Performed: 5/6/95
Batch No.: F050595
Lab Code: L952192-008

Analyte	Reporting Units	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP % MS	ACP RPD
Diesel	mg/Kg (ppm)	200	248	124	218	109	13	70-140	25

II Laboratory Quality Control Check Sample

Date Performed: 5/6/95
Batch No.: F050595
Lab Code: L952192-LCS

Analyte	Reporting Units	SPK CONC	Result	% Recovery	ACP %
Diesel	mg/Kg (ppm)	200	213	106	80-120

III Calibration Standards

Analyte	INITIAL RF _{ave} Date: 5/2/95	% RSD ≤ 20%	DAILY RF Date: 5/5/95	% DIFF W/RF _{ave} ≤ ± 15%
Diesel	1.137 X 10 ⁻⁴	11	1.096 X 10 ⁻⁴	4

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By: Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Service Request No.: L952192
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Date Performed: 5/6/95
 Batch No.: F050595
 Lab Code: L952192-023

Analyte	Reporting Units	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP % MS	ACP RPD
Diesel	mg/Kg (ppm)	200	174	87	204	102	16	70-140	25

II. Laboratory Quality Control Check Sample

Date Performed: 5/8/95
 Batch No.: F050895
 Lab Code: L952192-LCS

Analyte	Reporting Units	SPK CONC	Result	% Recovery	ACP %
Diesel	mg/Kg (ppm)	200	176	88	80-120

III. Calibration Standards

Analyte	INITIAL RF _{ave} Date: 5/2/95	% RSD ≤ 20%	DAILY RF Date: 5/5/95	% DIFF W/RF _{ave} ≤ ± 15%
Diesel	1.137 X 10 ⁻⁴	11	1.002 X 10 ⁻⁴	13

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By: Eydie Schwantz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Service Request No.: L952192
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

III. Calibration Standards

Analyte	INITIAL RF _{ave} Date: 5/2/95	% RSD ≤ 20%	DAILY RF Date: 5/6/95	% DIFF W/RF _{ave} ≤ ± 15%
Diesel	1.137 X 10 ⁻⁴	11	1.166 X 10 ⁻⁴	3

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By:

Eydie Schwartz

Date:

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON **Service Request No.:** L952192
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

III. Calibration Standards

Analyte	INITIAL RF _{ave}	% RSD	DAILY RF	% DIFF W/RF _{ave}
	Date: 5/2/95 ≤ 20%	≤ 20%	Date: 5/8/95	≤ ± 15%
Diesel	1.137 X 10 ⁻⁴	11	1.029 X 10 ⁻⁴	10

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By: Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary Base Neutral/Acid Semivolatile Organic Compounds EPA Methods 3550/8270

Sample Name	Lab Code	2FP	P e r c e n t R e c o v e r y				
			PHL	TBP	NBZ	FBP	TPH
B-4,5'	L952192-024	93	99	61	67	76	88
B-4,10'	L952192-025	111	117*	101	79	110	57
B-5,5'	L952192-026	98	113	54	77	89	102
B-5,10'	L952192-027	98	108	49	71	83	95
B-5,15'	L952192-028	94	110	71	69	72	98
Method Blank	L952192-MB	113	110	81	89	94	106
Matrix Spike	L952192-28MS	91	100	69	76	75	93
Duplicate Matrix Spike	L952192-28DMS	81	90	67	69	73	85

CAS Acceptance Limits: 25-121 24-113 19-122 23-128 30-115 18-137

2FP 2-Fluorophenol
PHL Phenol-D₆
TBP 2,4,6-Tribromophenol
NBZ Nitrobenzene-D₅
FBP 2-Fluorobiphenyl
TPH Terphenyl-D₁₄

NA Not Applicable

* The USEPA allows up to two surrogate recoveries (one acid and one base/neutral) to be outside of acceptance limits, without requiring reanalysis, according to the 2/88 Contract Laboratory Program Statement of work.

Approved By: _____

Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: 5/2/95
Date Analyzed: 5/3/95

Matrix Spike/Duplicate Matrix Spike Summary
Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3550/8270
Units: mg/Kg (ppm)

Sample Name: B-5,15'
Lab Code: L952192-028

Analyte	Percent Recovery								Relative Percent Difference
	Spike Level		Sample Result	Spike Result		CAS Acceptance Limits			
	MS	DMS		MS	DMS	MS	DMS		
Phenol	1.67	1.67	ND	1.51	1.41	90	84	26-90	7
2-Chlorophenol	1.67	1.67	ND	1.59	1.37	95	82	25-102	15
1,4-Dichlorobenzene	1.67	1.67	ND	1.37	1.14	82	68	28-104	18
N-Nitrosodi-n-propylamine	1.67	1.67	ND	1.77	1.56	106	93	41-126	13
1,2,4-Trichlorobenzene	1.67	1.67	ND	1.20	1.02	72	61	38-107	16
4-Chloro-3-methylphenol	1.67	1.67	ND	1.40	1.30	84	78	26-103	7
Acenaphthene	1.67	1.67	ND	1.64	1.49	98	89	31-137	10
4-Nitrophenol	1.67	1.67	ND	0.79	1.13	47	68	11-114	35
2,4-Dinitrotoluene	1.67	1.67	ND	1.37	0.69	82	41	28-89	66
Pentachlorophenol	1.67	1.67	ND	0.67	0.55	40	33	17-109	20
Pyrene	1.67	1.67	ND	1.73	1.53	104	92	35-142	12

NA Not Applicable
ND None Detected at or above reporting limit.

Approved By: Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
LCS Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: 5/2/95
Date Analyzed: 5/3/95

Laboratory Control Sample Summary
Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3510/8270
Units: mg/Kg (ppm)

Analyte	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
Phenol	1.67	1.60	96	5-112
2-Chlorophenol	1.67	1.63	98	23-134
1,4-Dichlorobenzene	1.67	1.61	96	20-124
N-Nitrosodi-n-propylamine	1.67	1.88	126	D-230
1,2,4-Trichlorobenzene	1.67	1.36	81	44-142
4-Chloro-3-methylphenol	1.67	1.49	89	22-147
Acenaphthene	1.67	1.72	103	47-145
4-Nitrophenol	1.67	1.11	66	D-132
2,4-Dinitrotoluene	1.67	1.53	92	39-139
Pentachlorophenol	1.67	0.97	58	14-176
Pyrene	1.67	1.82	109	52-115

NA Not Applicable
D Detected; result must be greater than zero.

Approved By: _____

Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192

Date Analyzed: 5/3/95

Continuing Calibration Verification (CCV) Summary
Base Neutral/Acid Semivolatile Organic Compounds
EPA Method 8270

Analyte	Average Calibration Response Factor (RF _{ave})	Percent Relative Standard Deviation (%RSD)	Daily Response Factor (RF)	Percent Difference (%DIFF)
Phenol	0.847	16	0.870	3
1,4-Dichlorobenzene	0.789	20	0.868	10
2-Nitrophenol	0.252	17	0.226	10
2,4-Dichlorophenol	0.324	6	0.321	1
Hexachlorobutadiene	0.238	10	0.208	12
4-Chloro-3-methylphenol	0.384	5	0.381	1
2,4,6-Trichlorophenol	0.396	4	0.387	2
Acenaphthene	1.018	10	1.151	13
N-Nitrosodiphenylamine	0.361	18	0.428	18
Fluoranthene	1.087	2	1.305	20
Benzo (a) pyrene	0.973	2	1.012	4
D-n-octylphthalate	1.693	7	1.811	7
Pentachlorophenol	0.165	17	0.180	9

Approved By: Eydie SchwartzDate: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192
Date Analyzed: 5/5/95

Initial and Continuing Calibration Verification (ICV and CCV) Summary
pH
EPA Method 9045
pH (Units)

Sample Name	True Value	Result	Percent Recovery
ICV	4.21	4.28	102
CCV1	10.00	10.00	100

Approved By:

Eydie Schwartz

Date:

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192
Date Analyzed: 5/10/95

Initial and Continuing Calibration Verification (ICV and CCV) Summary
Hexavalent Chromium
EPA Methods 3060/7196A
Units: mg/L (ppm)

Sample Name	True Value	Result	Percent Recovery
ICV	0.46	0.43	93
CCV1	0.46	0.44	96

Approved By:

Eydie Schwartz

Date:

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 5/5/95

Duplicate Summary
pH
EPA Method 9045
pH (Units)

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference
B-4,5'	L952192-024	9.94	10.38	10.16	4

NA Not Applicable
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit.

Approved By:

Eydie Schwartz

Date:

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Analyzed: 5/10/95

Initial and Continuing Calibration Blank (ICB and CCB) Summary
Hexavalent Chromium
EPA Methods 3060/7196A
Units: mg/L (ppm)

Sample Name	MDL	Result
ICB	0.1	ND
CCB1	0.1	ND

MDL Method Detection Limit.
ND None Detected at or above the method detection limit.
NA Not Applicable

Approved By: _____

Eydie Schwartz

Date: _____

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
LCS Matrix: Water

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 5/10/95

Laboratory Control Sample Summary
Hexavalent Chromium
EPA Methods 3060/7196A
Units: mg/L (ppm)

Analyte	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
Cr ⁶⁺	0.50	0.43	86	75-125
Cr ⁶⁺	0.50	0.44	88	75-125

NA

Not Applicable

Approved By:

Eydie Schwartz

Date:

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 5/10/95

Matrix Spike/Duplicate Matrix Spike Summary
Hexavalent Chromium
EPA Methods 3060/7196A
Units: mg/Kg (ppm)

Sample Name: B-4,5'
Lab Code: L952192-024

Analyte						Percent Recovery			Relative Percent Difference
	Spike Level		Sample Result	Spike Result				CAS	
	MS	DMS		MS	DMS	MS	DMS	Acceptance Limits	
Cr ⁶⁺	0.50	0.50	ND	0.39	0.39	78	78	40-140	< 1

ND None Detected at or above the method reporting limit.
NA Not Applicable

Approved By: _____

Eydie Schwartz

Date: _____

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

EPA Method 8260
 Reporting Units: µg/Kg (ppb)

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Date Performed: 5/4/95
Batch No.: 050495
Lab Code: L952161

Analyte	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP %MS	ACP RPD
1,1-Dichloroethene	5.00	4.33	87	5.36	107	21	59-172	22
Benzene	5.00	5.28	105	5.79	116	9	66-142	24
Trichloroethene	5.00	5.00	100	5.88	118	16	62-137	24
Toluene	5.00	4.62	92	4.96	99	7	59-139	21
Chlorobenzene	5.00	4.66	93	5.05	101	8	60-133	21

II. Laboratory Quality Control Check Sample

Date Performed: 5/4/95
Batch No.: 050495
Lab Code: L952192-LCS

Analyte	SPK CONC	Result	% Recovery	ACP %
1,1-Dichloroethene	5.00	4.58	92	80-120
Benzene	5.00	4.28	86	80-120
Trichloroethene	5.00	4.31	86	80-120
Toluene	5.00	4.64	93	80-120
Chlorobenzene	5.00	4.58	92	80-120

SPK CONC = Spiking Concentration;
 % MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD
 RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

Approved By: L952192-NLS - wdc 5/12/95

Eddie Schwartz

Date: 5/11/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192

III. Calibration Standard - EPA Method 8260 (Appendix II)

Most Recent Initial Calibration Date: 1/30/95
Daily Calibration Date: 5/4/95
Supply Source: AccuStandard

Analyte	Initial RF _{ave}	% RSD	Daily RF	% Diff w/RF _{ave}
Bromobenzene	0.507	11	0.537	6
Bromochloromethane	0.362	7	0.425	17
Bromodichloromethane	0.712	9	0.682	4
Bromoform	0.496	13	0.531	7
Bromomethane	0.387	4	0.418	8
Carbon tetrachloride	1.009	7	0.880	13
Chloroethane	0.225	7	0.260	16
Chloroform	1.181	4	1.101	7
Chloromethane	0.598	8	0.489	18
Dibromochloromethane	0.520	10	0.545	5
Dibromomethane	0.378	8	0.391	3
Dichloromethane (Methylene chloride)	0.620	10	0.513	17
Dichlorodifluoromethane	0.649	10	0.377	42
1,1-Dichloroethane (1,1-DCA)	1.215	7	-1.196	2
1,2-Dichloroethane (1,2-DCA)	0.812	8	0.800	1
1,1-Dichloroethylene (1,1-DCE)	0.442	3	0.399	10
cis-1,2-Dichloroethylene	0.532	5	0.391	27
trans-1,2-Dichloroethylene	0.702	4	0.696	1
1,2-Dichloropropane	0.427	7	0.438	3
cis-1,3-Dichloropropylene	0.652	9	0.623	4
trans-1,3-Dichloropropylene	0.611	9	0.548	10
1,1,1,2-Tetrachloroethane	0.405	10	0.390	4
1,1,2,2-Tetrachloroethane	0.473	9	0.490	4
Tetrachloroethylene(PCE)	0.485	13	0.459	5
1,1,1-Trichloroethane (1,1,1-TCA)	1.006	4	0.897	11
1,1,2-Trichloroethane (1,1,2-TCA)	0.302	11	0.288	5
Trichloroethylene (TCE)	0.365	6	0.417	14
1,2,3-Trichloropropane	0.466	6	0.523	12

Initial RF_{ave} = Average Response Factor From Initial Calibration

%RSD = Percent Relative Standard Deviation

Daily RF = Response Factor From Daily Calibration

%Diff w/RF_{ave} = Percent Difference with Average Response Factor

Approved By:  Date: 5/11/95

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192

III Calibration Standard - EPA Method 8260 (Appendix II)

Most Recent Initial Calibration Date: 1/30/95
 Daily Calibration Date: 5/4/95
 Supply Source: AccuStandard

Analyte	Initial RF _{ave}	% RSD	Daily RF	% Diff w/RF _{ave}
Trichlorofluoromethane	0.952	8	0.858	10
Vinyl chloride (VC)	0.304	7	0.298	2
Benzene	0.930	6	1.123	21
Chlorobenzene	0.960	11	1.010	5
1,2-Dichlorobenzene	0.790	11	0.894	13
1,3-Dichlorobenzene	0.815	7	0.891	9
1,4-Dichlorobenzene	0.802	9	0.920	15
Ethyl benzene	1.426	8	1.459	2
Toluene	0.742	8	0.797	7
m,p-Xylenes	0.518	8	0.579	12
o-Xylene	0.479	7	0.481	< 1
Acetone	0.199	5	0.194	3
n-Butylbenzene	1.383	12	1.213	12
sec-Butylbenzene	1.772	13	1.727	3
tert-Butylbenzene	1.169	11	1.189	2
2-Chloroethylvinyl ether	0.277	16	0.090	68
2-Chlorotoluene	1.253	7	1.153	8
4-Chlorotoluene	1.257	9	1.228	2
1,3-Dichloropropane	0.585	11	0.578	1
2,2-Dichloropropane	0.985	6	0.903	8
1,1-Dichloropropylene	0.804	5	0.731	9
Ethylene dibromide (EDB)	0.553	11	0.543	2
Hexachlorobutadiene	0.429	10	0.513	20
Isopropylbenzene	1.512	11	1.486	2
p-Isopropyltoluene	1.169	11	1.189	2
Methyl Ethyl Ketone	0.178	4	0.215	21
Methyl Isobutyl Ketone	0.364	5	0.449	23
Naphthalene	1.177	4	1.282	9

Initial RF_{ave} = Average Response Factor From Initial Calibration

%RSD = Percent Relative Standard Deviation

Daily RF = Response Factor From Daily Calibration

%Diff w/RF_{ave} = Percent Difference with Average Response Factor

Approved By: Eydie Schwartz Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED			5/2/95	5/2/95	5/2/95	5/2/95
DILUTION FACTOR			1	1	1	1
LAB SAMPLE I.D.			L952192-014	L952192-015	L952192-016	L952192-017
CLIENT SAMPLE I.D.			B-2,30'	B-2,35'	B-2,40'	B-3,5'
BTEX (EPA 8020)	MDL					
Benzene	0.0005		ND	ND	ND	ND
Toluene	0.0005		ND	ND	ND	ND
Ethylbenzene	0.0005		ND	ND	ND	0.0041
Total Xylenes	0.002		ND	ND	ND	0.033
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	86	83	78	87

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: _____

Eydie Schwartz

Date: 5/11/95

WBPHB/062794

L952192.XLS - wb8020w (5) 5/12/95

Page No.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED		5/2/95	5/2/95	5/2/95	5/3/95
DILUTION FACTOR		1	1	1	1
LAB SAMPLE I.D.		L952192-018	L952192-019	L952192-020	L952192-021
CLIENT SAMPLE I.D.		B-3,15'	B-3,20'	B-3,25'	B-3,30'
BTEX (EPA 8020)	MDL				
Benzene	0.0005	ND	ND	ND	ND
Toluene	0.0005	ND	ND	ND	ND
Ethylbenzene	0.0005	0.0028	ND	ND	ND
Total Xylenes	0.002	0.027	ND	ND	ND
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	71	90	87

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED		5/3/95	5/3/95		
DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		L952192-022	L952192-023		
CLIENT SAMPLE I.D.		B-3,35'	B-3,40'		
BTEX (EPA 8020)	MDL				
Benzene	0.0005	ND	ND		
Toluene	0.0005	ND	ND		
Ethylbenzene	0.0005	ND	ND		
Total Xylenes	0.002	ND	ND		
Surrogate	Spk Conc	ACP%	% RC	% RC	
4-Bromofluorobenzene	50	60-130	83	87	

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: _____

Eydie Schwartz

Date: _____

5/11/95

WBPHB/062794

L952192.XLS - wb6020w (7) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Hydrocarbon Scan/Fuel Characterization¹
 EPA Method Modified 8015/California DHS LUFT Method
 Units: mg/Kg (ppm)

Sample Name	Lab Code	Date Analyzed	MRL	Result	Fuel Characterization	Hydrocarbon Range
B-1,5'	L952192-001	5/5/95	10	ND	None	NA
B-1,10'	L952192-002	5/5/95	10	ND	None	NA
B-1,15'	L952192-003	5/5/95	10	ND	None	NA
B-1,20'	L952192-004	5/5/95	10	ND	None	NA
B-1,25'	L952192-005	5/6/95	10	ND	None	NA
B-1,30'	L952192-006	5/6/95	10	ND	None	NA
B-1,35'	L952192-007	5/5/95	10	ND	None	NA
B-1,40'	L952192-008	5/5/95	10	ND	None	NA
B-2,5'	L952192-009	5/5/95	10	ND	None	NA
B-2,10'	L952192-010	5/5/95	10	ND	None	NA
B-2,15'	L952192-011	5/5/95	10	ND	None	NA
B-2,20'	L952192-012	5/5/95	10	ND	None	NA
B-2,25'	L952192-013	5/5/95	10	ND	None	NA
B-2,30'	L952192-014	5/5/95	10	ND	None	NA
B-2,35'	L952192-015	5/5/95	10	ND	None	NA
B-2,40'	L952192-016	5/5/95	10	ND	None	NA
B-3,5'	L952192-017	5/6/95	10	ND	None	NA

¹ Hydrocarbon Scan/Fuel Characterization represents a hydrocarbon scan C₄ thru C₃₀ hydrocarbons.
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit
NA Not Applicable

Approved By: _____

Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192

III Calibration Standard - EPA Method 8260 (Appendix II)

Most Recent Initial Calibration Date: 1/30/95
Daily Calibration Date: 5/4/95
Supply Source: AccuStandard

Analyte	Initial RF _{ave}	% RSD	Daily RF	% Diff w/RF _{ave}
n-Propylbenzene	1.860	11	1.809	3
Styrene	0.991	8	1.055	6
1,2,3-Trichlorobenzene	0.801	8	0.712	11
1,2,4-Trichlorobenzene	0.644	3	0.747	16
1,2,4-Trimethylbenzene	1.661	5	1.358	18
1,3,5-Trimethylbenzene	1.237	4	0.186	85
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.416	8	0.385	7
1,2-Dibromo-3-chloropropane (DBCP)	0.147	11	0.206	40

Initial RF_{ave} = Average Response Factor From Initial Calibration

%RSD = Percent Relative Standard Deviation

Daily RF = Response Factor From Daily Calibration

%Diff w/RF_{ave} = Percent Difference with Average Response Factor

Approved By: Eydie Schwartz Date: 5/11/95

GOLDEN STATE CAS

LABORATORIES, INC.

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

225 CANOGA AVENUE • CANOGA PARK, CA 91303
818 587-5550 • FAX 818 587-5555DATE 4/28/95 PAGE 1 OF 3

COMPANY/ADDRESS <u>EMCON/3300 N. SAN</u> <u>FERNANDO BLVD, RUIRBANK</u> PHONE <u>818 841-1160</u>					GS/CAS # <u>L952192</u>		ANALYSIS REQUESTED														
PROJECT NAME/LOCATION <u>ANDREW VERGENS CO.</u> <u>99 W. VERDUGO AVE. RUIRBANK</u>					NUMBER OF CONTAINERS	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH/Gas/BTEX 8015/820/802</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH/8015 Modified Diesel & FC Gasoline & BTEX 802/8020</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Petroleum Hydrocarbons EPA 418.1</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Halogenated Volatiles 801/8010</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Volatile Organics GC/MS 821/8210/8280</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Semi-Volatile/PAHs GC/MS 823/8270</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CMI Metals 8010/7000</div> </div>															
PROJECT MNGR. <u>SALLY BLODREAU</u>																					
SAMPLERS SIGNATURE <u>Tim (K) MARK KUNDIE</u>					REMARKS																
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX																	
B-1, 5'	4/28/95		L952192-1	SOIL	1			X	X												
B-1, 10'	4/28/95		2		1			X	X												
B-1, 15'	4/28/95		3		1			X	X												
B-1, 20'	4/28/95		4		1			X	X												
B-1, 25'	4/28/95		5		1			X	X												
B-1, 30'	4/28/95		6		1			X	X												
B-1, 35'	4/28/95		7		1			X	X												
B-1, 40'	4/28/95		8		1			X	X												
B-2, 5'	4/28/95		9		1			X	X												
B-2, 10'	4/28/95		10		1			X	X												
B-2, 15'	4/28/95		11		1			X	X												
B-2, 20'	4/28/95		12		1			X	X												

RELINQUISHED BY: <u>Tim (K)</u> Signature <u>EMCON</u> Firm <u>4/28/95 5:10 PM</u> Date/Time	RECEIVED BY: <u>Tim (K)</u> Signature <u>GS/CAS</u> Firm <u>4/28/95 10:10 AM</u> Date/Time	TURNAROUND REQUIREMENTS: 24 hr 48 hr 5 day <input checked="" type="checkbox"/> Standard Other (Specify) Provide Verbal Preliminary Results Requested Report Date	REPORT REQUIREMENTS: I. Routine Report II. Report (Includes DUP, MS, MSD, as required, may be charged as samples) III. Data Validation Report (Includes All Raw Data) <input checked="" type="checkbox"/> RWOCB	INVOICE INFORMATION: P.O. # Bill to:	SAMPLE RECEIPT: Shipping VIA: Shipping #: Condition: Accepted for Analysis by:
--	--	---	---	--	--

RELINQUISHED BY: Signature Firm Date/Time	RECEIVED BY: Signature Firm Date/Time	RELINQUISHED BY: Signature Firm Date/Time	RECEIVED BY: Signature Firm Date/Time	SPECIAL INSTRUCTIONS/COMMENTS: <u>5.10.</u>
--	--	--	--	--



GOLDEN STATE LABS
LABORATORIES, INC.

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

6925 CANOGA AVENUE • CANOGA PARK, CA 91303
818 587-5550 • FAX 818 587-5555

DATE 4/28/95 PAGE 2 OF 3

COMPANY/ADDRESS <u>EMCON / 300 N. SAN</u> <u>FERNANDO BLVD BUZZRANK</u>					NUMBER OF CONTAINERS	GS/CAS# <u>L952192</u> ANALYSIS REQUESTED																							
PHONE <u>818 841-1160</u>						TPH-Gas/TEX 8015/8020/802 TPH-Gas Modified Diesel & Gasoline & BTEX 8020/8020 Total Petroleum Hydrocarbons EPA 418.1 Halogenated Volatiles 6010/6010 Volatile Organics 6010/6010 Base/Nucl/Alk Organics 6010/6010 CAM Metals 6010/7000	REMARKS																						
PROJECT NAME/LOCATION <u>ANDREW VERGENS CO.</u> <u>99 W. VERDUGO AVE. BUZZRANK</u>																													
PROJECT MGR. <u>SALLY RILORDAN</u> SAMPLERS SIGNATURE <u>Mark Kunkir</u>																													
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX																									
B-2, 25'	4/28/95		L952192-13	SOIL	1				X	X																			
B-2, 30'	4/28/95		14		1				X	X																			
B-2, 35'	4/28/95		15		1				X	X																			
B-2, 40'	4/28/95		16		1				X	X																			
B-3, 5'	4/28/95		17		1				X	X																			
B-3, 15'	4/28/95		18		1				X	X																			
B-3, 20'	4/28/95		19		1				X	X																			
B-3, 25'	4/28/95		20		1				X	X																			
B-3, 30'	4/28/95		21		1				X	X																			
B-3, 35'	4/28/95		22		1				X	X																			
B-3, 40'	4/28/95		22	↓	1				X	X																			
RELINQUISHED BY: <u>Mark Kunkir</u> Signature <u>EMCON</u> Firm <u>5-1-95</u> Date/Time <u>4/28/95 10:10 AM</u>					RECEIVED BY: <u>S. P. P. P.</u> Signature <u>GS/CAS</u> Firm <u>5-1-95 10:10 AM</u> Date/Time					TURNAROUND REQUIREMENTS: 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 5 day <input type="checkbox"/> <input checked="" type="checkbox"/> Standard Other (Specify) _____ Provide Verbal Preliminary Results Requested Report Date _____					REPORT REQUIREMENTS: I. Routine Report II. Report (Includes DUP, MS, MSD, as required, may be charged as samples) III. Data Validation Report (Includes All Raw Data) <input checked="" type="checkbox"/> RWQCB					INVOICE INFORMATION: P.O. # _____ Bill to: _____					SAMPLE RECEIPT: Shipping VIA: _____ Shipping #: _____ Condition: _____ Accepted for Analysis by: _____				
RELINQUISHED BY: Signature _____ Firm _____ Date/Time _____					RECEIVED BY: Signature _____ Firm _____ Date/Time _____					RELINQUISHED BY: Signature _____ Firm _____ Date/Time _____					RECEIVED BY: Signature _____ Firm _____ Date/Time _____					SPECIAL INSTRUCTIONS/COMMENTS: <u>5.10.</u>									

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303
818 587-5550 ■ FAX #818 587-5555

DATE 4/28/85 PAGE 3 OF 3

[illegible]

ATTACHMENT 5

**STOCKPILE SAMPLE ANALYTICAL REPORT
AND CHAIN-OF-CUSTODY DOCUMENTATION**

2348-600.01

**FIELD SERVICES
COPY**



March 21, 1995

Sally Bilodeau
EMCON Associates
3300 North San Fernando Blvd.
Burbank, CA 91504

Re: Jergens / 99 Verdugo Avenue, Burbank

Dear Sally:

Enclosed are the results of the samples submitted to our lab on March 9, 1995. For your reference, these analyses have been assigned our service request number L951607.

All analyses were performed in accordance with our laboratory's quality assurance program. Golden State / CAS is certified for environmental analyses by the California Department of Health Services (Certificate # 1296/Expiration - August 1996).

Please call if you have any questions.

Respectfully submitted,

Golden State/CAS Laboratories, Inc.

A handwritten signature in cursive script that reads "Elaine R. Thomas".

Elaine R. Thomas
Project Chemist

ET/iz

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON Associates
Project: Jergens/99 Verdugo
Sample Matrix: Soil

Service Request: L951607
Date Collected: 3/8/95
Date Received: 3/9/95
Date Extracted: NA
Date Analyzed: 3/20/95

Total Lead
EPA Methods 3050/6010
Units: mg/Kg (ppm)

Sample Name	Lab Code	MRL	Result
SP-4	L951607-004	5	17
Method Blank	L951607-MB	5	ND

MRL Method Reporting Limit.
ND None Detected at or above the method reporting limit.

Approved By:

Elaine R. Thomas

Date:

3/21/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON Associates
 Project: Jergens/99 Verdugo
 Sample Matrix: Soil

Service Request: L951607
 Date Collected: 3/8/95
 Date Received: 3/9/95
 Date Extracted: NA

BTEX EPA Methods 5030/8020

Analyte:	Benzene	Toluene	Ethylbenzene	Total Xylenes
Units:	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Method Reporting Limit:	0.050	0.050	0.050	0.050

Sample Name	Lab Code	Date Analyzed				
SP-1	L951607-001	3/10/95	ND	ND	ND	ND
SP-2	L951607-002	3/10/95	ND	ND	ND	ND
SP-3	L951607-003	3/11/95	ND	ND	ND	ND
SP-4	L951607-004	3/11/95	ND	ND	ND	ND
SP-5	L951607-005	3/11/95	ND	ND	ND	ND
SP-6	L951607-006	3/11/95	ND	ND	ND	ND
SP-7	L951607-007	3/11/95	ND	ND	ND	ND
SP-8	L951607-008	3/11/95	ND	ND	ND	ND
SP-9	L951607-009	3/11/95	ND	ND	ND	ND
SP-10	L951607-010	3/13/95	ND	ND	ND	ND
SP-11	L951607-011	3/13/95	ND	ND	ND	ND
SP-12	L951607-012	3/13/95	ND	ND	ND	ND
SP-13	L951607-013	3/13/95	ND	ND	ND	ND
SP-14	L951607-014	3/14/95	ND	ND	ND	ND
SP-15	L951607-015	3/14/95	ND	ND	ND	ND
SP-16	L951607-016	3/14/95	ND	ND	ND	ND
SP-17	L951607-017	3/14/95	ND	ND	ND	ND
SP-18	L951607-018	3/14/95	ND	ND	ND	ND
SP-19	L951607-019	3/14/95	ND	ND	ND	ND
Method Blank	L951607-MB	3/10/95	ND	ND	ND	ND

NA Not Applicable
 MRL Method Reporting Limit.
 ND None Detected at or above the method reporting limit.

Approved By:

Elmer Hone

Date: 3-21-95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON Associates
Project: Jergens/99 Verdugo
Sample Matrix: Soil

Service Request: L951607
Date Collected: 3/8/95
Date Received: 3/9/95
Date Extracted: 3/14/95

Hydrocarbon Scan/Fuel Characterization EPA Method Modified 8015/California DHS LUFT Method

Analyte:	Gasoline*	Diesel**
Units:	mg/Kg (ppm)	mg/Kg (ppm)
Method Reporting Limit:	10	10

Sample Name	Lab Code	Date Analyzed		
SP-1	L951607-001	3/14/95	ND	ND
SP-2	L951607-002	3/14/95	14	40
SP-3	L951607-003	3/14/95	ND	ND
SP-4	L951607-004	3/14/95	ND	76
SP-5	L951607-005	3/14/95	ND	ND
SP-6	L951607-006	3/14/95	ND	54
SP-7	L951607-007	3/14/95	ND	53
SP-8	L951607-008	3/14/95	ND	28
SP-9	L951607-009	3/14/95	ND	ND
SP-10	L951607-010	3/15/95	ND	56
SP-11	L951607-011	3/15/95	ND	18
SP-12	L951607-012	3/15/95	ND	40
SP-13	L951607-013	3/15/95	ND	ND
SP-14	L951607-014	3/15/95	ND	47
SP-15	L951607-015	3/15/95	ND	28
SP-16	L951607-016	3/15/95	ND	50
SP-17	L951607-017	3/15/95	ND	ND
SP-18	L951607-018	3/15/95	ND	35
SP-19	L951607-019	3/15/95	ND	ND
Method Blank	L951607-MB	3/15/95	ND	ND

NA Not Applicable
 ND None Detected at or above the method reporting limit.
 * Result indicates hydrocarbons detected in the time range of C₄-C₁₂.
 ** Result indicates hydrocarbons detected in the time range of C₁₂-C₂₄.

Approved By: Elmer K. Thomas Date: 3-21-95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Associates
Project: Jergens/99 Verdugo
Sample Matrix: Soil

Service Request: L951607
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
BTEX
EPA Methods 5030/8020

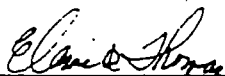
Sample Name	Lab Code	Percent Recovery 4-Bromofluorobenzene
SP-1	L951607-001	73
SP-2	L951607-002	66
SP-3	L951607-003	69
SP-4	L951607-004	64
SP-5	L951607-005	66
SP-6	L951607-006	69
SP-7	L951607-007	72
SP-8	L951607-008	116
SP-9	L951607-009	60
SP-10	L951607-010	59
SP-11	L951607-011	77
SP-12	L951607-012	66
SP-13	L951607-013	72
SP-14	L951607-014	67
SP-15	L951607-015	72
SP-16	L951607-016	74
SP-17	L951607-017	72
SP-18	L951607-018	65
SP-19	L951607-019	63
Method Blank	L951607-MB	80

CAS Acceptance Limits: 50-130

NA

Not Applicable

Approved By: _____



Date: 3-21-95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Associates
Project: Jergens/99 Verdugo
Sample Matrix: Soil

Service Request: L951607
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
Hydrocarbon Scan/Fuel Characterization
EPA Method Modified 8015/California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery <i>p</i> -Terphenyl
SP-1	L951607-001	97
SP-2	L951607-002	102
SP-3	L951607-003	107
SP-4	L951607-004	109
SP-5	L951607-005	106
SP-6	L951607-006	118
SP-7	L951607-007	118
SP-8	L951607-008	106
SP-9	L951607-009	113
SP-10	L951607-010	115
SP-11	L951607-011	108
SP-12	L951607-012	109
SP-13	L951607-013	112
SP-14	L951607-014	113
SP-15	L951607-015	115
SP-16	L951607-016	111
SP-17	L951607-017	113
SP-18	L951607-018	107
SP-19	L951607-019	111
Method Blank	L951607-MB	100

CAS Acceptance Limits: 50-140

NA Not Applicable

Approved By: _____

Elaine R. [Signature] Date: 3/21/95



GOLDEN STATE LABS
LABORATORIES, INC.

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303
818 587-5550 ■ FAX #818 587-5555

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 3-8-95 PAGE 1 OF 2

COMPANY/ADDRESS EMCON / 3300 N. SAN
FERNANDO BLVD. BURBANK
PHONE 818-841-1160
PROJECT NAME/LOCATION VERGENS / 99 VERDUGO
AVENUE, BURBANK
PROJECT MNGR. SALLY RILGDEAN
SAMPLERS SIGNATURE MARK KUNOIR

					NUMBER OF CONTAINERS	ANALYSIS REQUESTED														REMARKS
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX		TPH Gas/BTEX 8015/820/820	TPH 8015 Modified Diesel 8015 GC X Gasoline 802/820	BTEX 802/820	Total Petroleum Hydrocarbons EPA 418.1 801/8010	Halogenated Volatiles 801/8010	Volatile Organics GC/MS 824/824/820	BaseN/Ac/Organic GC/MS 825/820	CAH Metals 8010/7000							
SP-1	3/8/95		L951607-1	SP-1	1		X	X												
SP-2	3/8/95		2		1		X	X												* FUEL TOTAL
SP-3	3/8/95		3		1		X	X												LEAD 6010
SP-4	3/8/95		4		1		X	X												ON SAMPLES
SP-5	3/8/95		5		1		X	X												WITH HIGHEST
SP-6	3/8/95		6		1		X	X												TPH CONC.
SP-7	3/8/95		7		1		X	X												
SP-8	3/8/95		8		1		X	X												
SP-9	3/8/95		9		1		X	X												
SP-10	3/8/95		10		1		X	X												
SP-11	3/8/95		11		1		X	X												
SP-12	3/8/95		12		1		X	X												

RELINQUISHED BY:
Mark Kunoir
Signature
Emcon
Firm
3-9-95 / 0930
Date/Time

RECEIVED BY:
[Signature]
Signature
3-9-95 0930
Firm
GS/CAS
Date/Time

TURNAROUND REQUIREMENTS:
24 hr ☐ 48 hr ☐ 5 day ☐
☒ Standard
Other (Specify) _____
Provide Verbal Preliminary Results
Requested Report Date _____

REPORT REQUIREMENTS:
☒ I. Routine Report
☐ II. Report (includes DUP, MS, MSD, as required, may be charged as samples)
☐ III. Data Validation Report (includes All Raw Data)
☐ RWQCB

INVOICE INFORMATION:
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Shipping VIA: _____
Shipping #: _____
Condition: _____
Accepted for Analysis by: _____

RELINQUISHED BY:
Signature
Firm
Date/Time

RECEIVED BY:
Signature
Firm
Date/Time

RELINQUISHED BY:
Signature
Firm
Date/Time

RECEIVED BY:
Signature
Firm
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:
SOPPB BTEX DETECTION LIMIT IS
ACCEPTABLE - SAMPLES ARE FOR
DISPOSAL; FUEL CHARACTERIZATION
MUST BE BROKEN DOWN BY GAS
RANGE (C4-C12) & DIESEL (C9-C24)

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303
818 587-5550 ■ FAX #818 587-5555

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 3-8-95 PAGE 2 OF 2

[illegible]

ATTACHMENT 6

**WASTE DISCHARGE REQUIREMENTS
PERMIT DATED JULY 28, 1995**

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600



July 28, 1995

Patricia Marshik
Staff Geologist
Emcon
3300 N. San Fernando Blvd.
Burbank, CA 91504

WASTE DISCHARGE REQUIREMENTS FOR DISCHARGE OF DIESEL CONTAMINATED
SOIL - ANDREW JERGENS COMPANY AT 99 VERDUGO AVENUE, BURBANK -
File No. 88-57-150 (95)

On July 13, 1995, you filed with this Board a report of waste discharge for using up to 350 cubic yards of diesel contaminated soil as backfill material on site.

We have reviewed the information provided and have determined that the proposed discharge of this material meets the conditions specified in Order No. 91-93, "General Waste Discharge Requirements for Discharge of Non-Hazardous Contaminated Soils and Other Wastes in Los Angeles River and Santa Clara River Basins", adopted by this Board on July 22, 1991.

Enclosed are Waste Discharge Requirements, comprising:

1. General Waste Discharge Requirements
2. Monitoring and Reporting Program

Please note that the Monitoring and Reporting Program requires that a report be submitted to this Board within 10 days of the completion of disposal operations. The report shall reference the above file number.

If you have any questions, please contact Juan Gonzalez at (213) 266-7555.

A handwritten signature in cursive script that reads 'Catherine Lynell'.

for ROBERT P. GHIRELLI, D.Env.
Executive Officer

Enclosures

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION

ORDER NO. 91-93

GENERAL WASTE DISCHARGE REQUIREMENTS
FOR
DISCHARGE OF NON-HAZARDOUS CONTAMINATED SOILS AND OTHER WASTES
IN LOS ANGELES RIVER AND SANTA CLARA RIVER BASINS
(File No. 88-57)

The California Regional Water Quality Control Board, Los Angeles Region finds:

1. The California Water Code requires that any person discharging wastes or proposing to discharge waste which could affect the quality of the waters of the state shall file a Report of Waste Discharge with the Regional Board. The Regional Board then shall prescribe requirements as to the nature of the proposed or existing discharge.
2. Soils contaminated with moderate concentrations of petroleum hydrocarbons, heavy metals and other special wastes are considered to be wastes whose discharge could affect the quality of the waters of the State.
3. Land disposal of these wastes to properly engineered and managed Class III Waste Management Units (Landfills) is proving to be an efficient and economical means of mitigating the effects of such contaminated waste. The threat to waters of the State is thereby eliminated or reduced to non-significant levels.
4. Each month this Board receives a large number of requests for the disposal of soils contaminated with hydrocarbons and other waste. For each such request, staff has to determine the concentration of the significant contaminants/pollutants in the waste, the regulatory limits, if any, for the contaminants/pollutants, and the potential impact on the waters of the State from the disposal of the waste. Such requests are anticipated to continue and far exceed the capacity of staff to review and bring to the Board for consideration of individual waste discharge requirements in a timely manner. These circumstances create the need for an expedited system for processing the numerous requests for disposal of these moderately contaminated wastes.

June 12, 1991

General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils

File No. 88-57

5. The adoption of general waste discharge requirements for the disposal of these non-hazardous contaminated soils and other similar wastes would: a) simplify the application process for dischargers, b) allow more efficient use of Regional Board staff time; and c) reduce Regional Board time by enabling the Executive Officer to notify the discharger of the applicability of the General Waste Discharge Requirements.
6. These general waste discharge requirements for the disposal of non-hazardous contaminated soils and other similar waste up to 100,000 cubic yards for durations not to exceed 90 days under direction of the Executive Officer would benefit the public, staff, and the Board by accelerating the review process without loss of regulatory jurisdiction and oversight.
7. The Board adopted revised Water Quality Control Plans for the Santa Clara River and Los Angeles River Basins on October 22, 1990 and June 3, 1991, respectively. These Water Quality Control Plans contain water quality objectives for ground water for all Hydrologic Subareas within the Region. The requirements contained in this Order, as they are met, will be in conformance with the goals of the Water Quality Control Plans.
8. Beneficial uses of ground water in the Los Angeles Region include municipal and domestic supply, agricultural supply, industrial process supply, and ground water recharge. Beneficial uses for individual Hydrologic Subareas are specified in the Water Quality Control Plans.
9. The Class III Landfill disposal is a one time, short term disposal, and is not anticipated to require in excess of 90 days to complete at which time these requirements will expire.
10. The issuance of Waste Discharge Requirements for the discharges subject to these general requirements is exempt from the provisions of Chapter 3, (commencing with Section 21100) of Division 13, of the Public Resources Code pursuant to one or more of the following provisions:

General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils

File No. 88-57

(a) The lead agency has prepared an Environmental Impact Report or a negative declaration based on findings pursuant to California Code of Regulations, Title 14, Chapter 3, Section 15070 which show that there will be no significant impact on water quality; or

(b) The project would affect a minor alteration to the condition of land, and is exempt in accordance with Title 14, Chapter 3, Section 15304, California Code of Regulations.

11. These general waste discharge requirements are not intended to alter or supersede any existing restrictions or working arrangements relating to cleanup cases with local governmental agencies.

The Board has notified interested agencies and persons of its intent to adopt general waste discharge requirements for disposal of hydrocarbon contaminated soils and other similar wastes and has provides them with an opportunity to submit their written views and recommendations.

The Board in a public meeting heard and considered all comments pertaining to the tentative requirements.

IT IS HEREBY ORDERED THAT:

A. APPLICABILITY

1. This Order shall serve as General Waste Discharge Requirements for the discharge of non-hazardous contaminated soil and other similar wastes to properly engineered and managed Waste Management Units.
2. Upon receipt of a Report Waste Discharge describing such discharge, the Executive Officer shall determine if such discharge, a) involves 100,000 cubic yards or less of hydrocarbon contaminated soil and/or other similar waste, b) involves contaminated soils and/or other similar wastes at acceptable levels as determined by the Executive Officer, but total petroleum hydrocarbons (TPH) shall not exceed an average concentration of 1,000 mg/kg, c) will be completed within 90 days, and d) is covered by adequate soil characterization of the nature and extent of the soil contamination, and e) the threat to ground water from such soil and/or other waste discharge is reduced to non-significant levels.

General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils

File No. 88-57

In the event the Executive Officer so finds, he shall notify the applicant (hereinafter called the Discharger) in writing that the proposed discharge is subject to this Order.

3. Notwithstanding the above provisions, individual cases may be brought to the Board for adoption of waste discharge requirements when deemed appropriate by the Executive Officer..

B. WASTE DISCHARGE REQUIREMENTS

1. No condition of pollution or nuisance shall be caused by the handling of the wastes or from any excavation operation conducted in association with this waste disposal operation.
2. Odors from the handling of these wastes shall not be perceivable beyond the limits of the property owned or controlled by the discharger.
3. All required state and local permits and/or variances shall be obtained by the discharger prior to commencing the disposal operations.
4. The discharge and disposal of waste shall be in conformance with Title 23, Division 3, Chapter 15, California Code of Regulations "Discharge of Waste to Land".
5. Wastes discharged shall be limited to material obtained from one site only; no other wastes shall be imported and/or commingled with those wastes.
6. Wastes may be discharged at a classified Waste Management Unit in the Los Angeles Region, provided the analyses are representative of the entire volume of material and with the concurrence of the site operator.
7. Waste discharged or reclaimed for reuse as soil backfill shall not contain any substance in concentrations toxic to human, animal, plant, or aquatic life.

General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils

File No. 88-57

8. The discharge of wastes shall be to a legal point of disposal or to a site approved by the Executive Officer and in accordance with the provisions of Division 7.5 of the Water Code. For the purposes of these requirements, a legal disposal site is one for which requirements have been established by a California Regional Water Quality Control Board and which is in compliance therewith.

C. PROVISIONS

1. A copy of these requirements shall be maintained by the discharger at the proposed site and be available at all times to operating personnel.
2. In the event the discharger is unable to comply with any of the conditions of this Order due to:
 - (a) Breakdown of waste disposal equipment,
 - (b) Accidents caused by human error or negligence,
 - (c) Other causes such as acts of nature,
 - (d) Facility operations

The discharger must notify this Board by telephone within 24 hours of the incident and confirm it in writing within one week of the telephone notification.

3. In accordance with Section 13260 of the California Water Code, the discharger shall file a report of material change with this Regional Board of any material change in the character, location or volume of the discharge.
4. The Discharger shall allow the Regional Board or an authorized representative upon the presentation of credentials and other documents as may be required by law, to:
 - (a) Enter upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;

General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils


File No. 88-57

- (b) Have access to, and copy at reasonable times, any records that are kept under the conditions of this Order;
 - (c) Inspect, at reasonable times, any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and
 - (d) To photograph, sample, or monitor, at reasonable times, for the purpose of assuring compliance with this Order, or as otherwise authorized by the California Water Code.
- 5. In accordance with Section 13263 of the Water Code, these waste discharge requirements are subject to periodic review and revision by this Regional Board.
 - 6. These requirements do not exempt the discharger from compliance with any other laws, regulations, or ordinances which may be applicable, they do not legalize this soil disposal or similar waste and they leave unaffected any further restraints on those facilities which may be contained in other status or contained by other regulatory agencies.

D. EXPIRATION

These Waste Discharge Requirements regulating a specific short term soil or similar waste discharge expire 90 days after the Executive Officer has determined this Order is applicable to the specific project.

I, Robert P. Ghirelli, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on July 22, 1991.



ROBERT P. GHIRELLI, D.Env.
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM
for
DISCHARGE OF NON-HAZARDOUS CONTAMINATED SOILS
AND OTHER WASTES

ANDREW JERGENS COMPANY - 99 VERDUGO AVE., BURBANK

File No. 38-57-150(95)

I. Reporting

- A. The discharger shall implement this monitoring and reporting program on the date of issuance of the Waste Discharge Requirements.
- B. The monitoring report shall be submitted within ten (10) days following the completion of disposal operations at the final point of disposal.
- C. All analytical samples obtained for this program shall be grab samples.
- D. In the event that hazardous or other unacceptable wastes are detected during disposal, the type, source, and final disposition of these wastes shall be reported.

II. Waste Disposal Reporting

- A. A report containing the following information shall be filed with this Regional Board after completion of all waste disposal:
 - 1. A tabular list of the estimated average quantities (in cubic yards) and types of materials deposited.
 - 2. Where the material was deposited (landfill name).
 - 3. A certification that all wastes deposited were in compliance with the Regional Board's requirements and that no wastes have been deposited outside of the boundaries of the site as specified in the Regional Board's requirements.
 - 4. In those cases where approval is given for the partial disposal of contaminated soils or other wastes, the ultimate disposal point of the remaining contaminated soils or other wastes must be reported, including the quantity of material disposed of at the different location.

General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils

File No. 88-57

B. Monitoring reports shall be signed by:

1. In the case of corporations, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of discharge;
2. In the case of a partnership, by a general partner;
3. In the case of a sole proprietorship, by the proprietor;
4. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

C. The report shall contain the following completed declaration:

"I declare under penalty of perjury that the foregoing is true and correct.

Executed on the ____ day of _____ at _____

_____(Signature)

_____(Title)"

D. The discharger shall mail a copy of the monitoring report to the following:

California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA 91754-2156

Attn: Technical Support Unit

Ordered by:


ROBERT P. GHIRELLI, D.Env.
Executive Officer

Date:

JUL 28 1995

ATTACHMENT 7
HEALTH AND SAFETY PLAN

**SITE HEALTH AND SAFETY PLAN
FORMER JERGENS FACILITY
BURBANK, CALIFORNIA**

September 20, 1995

Prepared by

EMCON
3300 North San Fernando Boulevard
Burbank, California 91504

Project 2349-600.001



Erin K. O'Connell, C.E.G.
Project Manager

9/20/95
Date



Brian O. Primeau
Health & Safety Coordinator

9-20-95
Date

CONTENTS

1 INTRODUCTION AND SCOPE	1-1
1.1 Introduction	1-1
1.2 Organization	1-1
1.3 Site Identification	1-2
1.4 Previous Investigations	1-2
1.5 Scope	1-3
2 KEY PERSONNEL AND ASSIGNMENT RESPONSIBILITIES	2-1
2.1 Project Manager	2-1
2.2 Regional Health and Safety Coordinator	2-1
2.3 Site Safety Coordinator	2-1
2.4 Field Personnel	2-1
2.5 Subcontractors and Third Parties	2-2
3 CHEMICAL HAZARDS	3-1
3.1 Acute Health Effects	3-1
3.2 Chronic Health Effects	3-1
4 PHYSICAL HAZARDS	4-1
4.1 Heat Stress	4-1
4.2 Avoidance of Heat-Related Emergencies	4-3
4.3 Heat Stress Monitoring	4-4
4.4 Noise	4-5
4.5 Biological Hazards	4-5
4.6 Electrical Hazards	4-6
4.7 Fire or Explosion	4-7
4.8 Lifting Hazards	4-7
5 AIR MONITORING PLAN	5-1
5.1 Instruments	5-1
5.2 Action Levels	5-2
5.3 Personnel Responsibilities	5-3

CONTENTS (Continued)

6 STANDARD WORKER PROTECTION	6-1
6.1 Engineering Controls	6-1
6.2 Level D Protection	6-2
6.3 Level C Protection	6-3
6.4 Level B Protection	6-3
7 DECONTAMINATION PROCEDURES	7-1
7.1 Worker Decontamination	7-1
7.2 Heavy Equipment Decontamination	7-1
8 TRAINING REQUIREMENTS AND CONTINGENCIES	8-1
8.1 Training	8-1
8.2 Contingency Plans	8-1
9 TASK SPECIFIC SAFETY REQUIREMENTS	9-1
9.1 Drill One 40-Foot Boring	9-1
9.2 Excavate contaminated soil	9-1
9.3 Backfilling	9-2
 APPENDIX A AIR MONITORING FORM	
 APPENDIX B INSTRUMENT CALIBRATION LOG	
 APPENDIX C TAILGATE SAFETY MEETING FORM	
 APPENDIX D INJURY/ACCIDENT FORMS	
 APPENDIX E PERSONAL ACKNOWLEDGMENT	

TABLES AND ILLUSTRATIONS

Tables

Table 4-1 Minimum Safe Clearance

Table 5-1 Action Levels For Air Monitoring

Table 8-1 Emergency Assistance Information

1 INTRODUCTION AND SCOPE

1.1 Introduction

This Health and Safety Plan (HASP) was developed to protect workers and the general public during site investigation activities at the former Jergens Facility in Burbank, California.

The proposed work involves the following tasks:

1. Drill and sample one 40-foot deep boring
2. Excavate hydrocarbon impacted soils
3. Backfill open excavations

1.2 Organization

This HASP is organized as follows:

- Section 1: Introduction
- Section 2: Key Personnel
- Section 3: Chemical Hazards
- Section 4: Physical Hazards
- Section 5: Standard Air Monitoring Plan
- Section 6: Standard Worker Protection
- Section 7: Standard Decontamination Procedures
- Section 8: Training Requirements
- Section 9: Task Specific Safety Requirements

1.3 Site Identification

The Jergens facility is located at 99 West Verdugo Avenue in the City of Burbank, California, as shown on the vicinity, Figure 1. The site is currently a flat, graded lot and all improvements have been removed.

The site is located within the City of Burbank and is bordered by Verdugo Avenue to the southeast, Flower Street to the southwest, and by Olive Street and the Southern Pacific Railroad tracks to the northwest and southwest, respectively. The approximately 4.9 acre site was formerly occupied by a facility owned and operated by the Andrew Jergen Company from the 1920s until 1992. The facility was used to manufacture soap and associated products and has been decommissioned.

1.4 Previous Investigations

In February 1995, tanks 1 through 4 and associated product line piping were excavated and removed. Soil samples collected from the base of the excavation of tanks 1, 2, and 3 did not contain detectable concentrations of total petroleum hydrocarbons (TPH) using U.S. EPA Method 418.1 or benzene, toluene, ethylbenzene, and total xylenes (BTEX) using U.S. EPA Method 8020 (Table 1). Soil samples collected from beneath tank 4 did not contain detectable concentrations of TPH or total recoverable petroleum hydrocarbons (TRPH) using U.S. EPA Method 418.1. Samples collected beneath the product lines associated with tank 4 were reported to be impacted with TRPH concentrations ranging from 53 to 76 milligrams per kilogram (mg/kg).

In March 1995, four USTs (tanks 5 through 8) were excavated and removed from the north-central portion of the site. Soil samples collected beneath tanks 5, 6, and 8 were reported to be impacted with TRPH concentrations ranging from 16,000 to 35,000 mg/kg. Soil excavated during the removal of tank 5 was stockpiled and covered with polyethylene sheeting, and the tank 5, 6, 7, and 8 excavation was backfilled with the excavated soils.

In February and March, 1995, EMCON conducted a preliminary site assessment to delineate the extent of soil impacted by petroleum hydrocarbons associated with the former aboveground and underground storage tanks (tanks 4 through 8), sump, and clarifier. On February 24, 1995, soil boring EB-1, located in the vicinity of the former aboveground gasoline tank (tank 4), was drilled to a depth of approximately 15 feet below grade. Soil samples were collected at 5 foot depth intervals labeled, and transported under proper chain-of-custody documentation in a chilled container to a state-certified analytical laboratory. The samples were analyzed for TPH as gasoline by U.S. EPA Method 8015 (Modified). TPH was not detected at concentrations above the laboratory method reporting limit in samples collected from the boring EB-1.

On April 28, 1995, soil borings B-1 through B-3 were drilled in the vicinity of the tank 5, 6, 7, and 8 excavation. Soil samples from borings B-1 through B-3 were collected at 5-foot depth intervals and analyzed for hydrocarbon scan/fuel characterization and BTEX by U.S. EPA Methods 8015 (Modified) and 8020, respectively. No TPH or benzene concentrations were reported at concentrations above method reporting limits in the soil samples.

Borings B-4 and B-5 were drilled at the location of the former clarifier and sump. Soil samples collected from borings B-4 and B-5 were analyzed for hydrocarbon scan/fuel characterization, volatile organic compounds, base neutral/acid semivolatile organic compounds (semi-VOCs), semivolatiles, hexavalent chrome, and pH. Concentrations of TPH, VOCs, semi-VOCs, and hexavalent chromium were not detected in the soil samples collected from boring B-5. Concentrations of TPH of 3,000 and 1,800 mg/kg were detected in the soil samples collected from boring B-4 at depths of 5 and 10 feet, respectively. Trace concentrations of three VOCs were also detected in these samples. These results indicate that hydrocarbons are present in the soil in the vicinity of the former clarifier.

1.5 Scope

This Health and Safety Plan (HASP) was developed to protect workers and the general public at the former Jergens facility in Burbank, California. The HASP is based on current Occupational Safety and Health Administration (OSHA) regulations (29 CFR 1910.120), current California regulations (8 CCR 5192), and an evaluation of existing data derived from previous assessment activities. This document is only intended as an aid to employees who perform the tasks identified in this HASP. A discussion of task specific safety procedures is included in Section 9 of this document.

2 KEY PERSONNEL AND ASSIGNMENT RESPONSIBILITIES

2.1 Project Manager

The project manager for this project is Erin O'Connell. The project manager has the overall project responsibility for the development, coordination, and implementation of the project field work in a safe manner and is the central point of contact with regulatory agencies. The project manager is responsible for implementing the steps of the closure workplan and the HASP, as well as supervising the field team members. In addition, she is responsible for consulting with the health and safety manager and with the site safety coordinator regarding any changes that may affect the health and safety of the field team members.

2.2 Regional Health and Safety Coordinator

The regional health and safety coordinator for the investigation is Brian Primeau. The health and safety coordinator has the overall responsibility for the development, coordination, and implementation of the HASP and its conformance with EMCON's health and safety program. This includes the medical surveillance program, training requirements, monitoring procedures, etc. The health and safety coordinator shall work with the project manager and the site safety coordinator on modifications to the site HASP and will be available for consultation as necessary.

2.3 Site Safety Coordinator

The site safety coordinator (SSC) is responsible for ensuring compliance with the site HASP, including health and safety procedures for work sites, monitoring and recording of conditions, personal protective equipment and clothing, and consulting with the health and safety manager regarding the HASP.

2.4 Field Personnel

Field personnel are responsible for understanding and adhering to this HASP, and should also be alert to any unsafe conditions or practices which may affect their safety. Any

safety deficiencies will be communicated to the site safety coordinator. If personnel safety is threatened the site safety coordinator, project manager, or health and safety manager will be contacted immediately.

2.5 Subcontractors and Third Parties

Equipment operators, laborers, and other parties subcontracted by EMCON will be responsible for understanding and complying with all site safety requirements. EMCON will provide site supervision, perform air monitoring, and establish decontamination areas. However, subcontractors and third parties engaged in work at this site will be required to provide their own work equipment and personal protective gear. Subcontractors will also be required to provide EMCON with documentation that their employees have completed the OSHA-required 40-hour training program (and the annual refresher course, if appropriate) prior to working on this project.

3 CHEMICAL HAZARDS

This facility was formerly used to manufacture soaps and associated projects. Previous site investigations have confirmed that on-site soils have been contaminated with various hydrocarbon compounds. These compounds are complex mixtures that appear similar to gasoline, diesel fuel, and motor oils. The presence of BTEX has also been confirmed at this site.

3.1 Acute Health Effects

Table 1 summarizes the known health effects of the chemicals encountered at this site. The table includes significant routes of exposure and health effects for pure forms of the chemicals encountered on site.

The current occupational inhalation exposure levels for the detected chemicals are also shown on Table 1. These levels will be used to determine when workers are being exposed to airborne concentrations that may lead to adverse health effects. If these concentrations are exceeded, engineering controls will be implemented to reduce employee exposure. If exposure continues above these levels, employees will be provided with respiratory protection.

3.2 Chronic Health Effects

Of the compounds listed in Table 1, benzene has been listed by the State of California as a confirmed human carcinogen. Any exposure to benzene must be kept to the lowest feasible concentration. Toluene has been listed as a possible reproductive toxin under the Safe Drinking Water act of 1986 (Proposition 65).

4 PHYSICAL HAZARDS

Physical agents that site workers can reasonably be expected to encounter, and mitigation measures to reduce effects of these agents, are discussed below.

4.1 Heat Stress

During warm weather, heat rash, heat cramps, heat exhaustion, or heat stroke can be experienced. The use of PPE can increase the probability of heat stress. Therefore, it is important that all employees are able to recognize the symptoms of heat stress and are capable of arresting the problem as quickly as possible. The use of PPE will be limited as much as possible to reduce the chance of heat effects through the use of administrative and engineering controls.

It must be recognized that this job site is located in an area that routinely experiences temperature extremes. All workers are assumed to be acclimatized to work in hot environments. Heat stress training is to be emphasized when preparing for this project, and the Site Safety Officer will aggressively monitor employees for signs of heat stress.

4.1.1 Heat Rash

A skin rash, known as prickly heat, can occur when the skin is continuously exposed to humid heat and the skin is continuously wet with sweat. Profuse, tiny raised red blister-like vesicles arise on affected areas of the skin. During exposure to heat, the skin experiences a prickling sensation.

Should these symptoms occur, keep skin clean, apply mild drying lotions, and allow the skin to dry completely between heat exposures. Workers should change into clean, dry clothing.

4.1.2 Heat Cramps

Heat cramps usually occur when excessive perspiration occurs without adequate salt replacement. Loss of salt from the body causes very painful cramps of the arm, leg, and/or abdominal muscles. Heat cramps also may result from drinking iced liquids either

too quickly or in too large a quantity. The symptoms of heat cramps are usually belated (up to several hours after work has stopped) and include:

- Muscle cramps in legs, arms, and/or abdomen
- Pain accompanying the cramps
- Faintness
- Profuse perspiration

If any of these symptoms appear, move the individual to a cool place. Give him or her sips of liquid such as Gatorade or its equivalent. Apply manual pressure to the cramped muscle. Do not allow the individual to return to work. Report the incident immediately. Transport the individual to a hospital if there is any indication of a more serious problem.

4.1.3 Heat Exhaustion

Heat exhaustion is caused by sustained exertion in heat and insufficient water and/or salt replacement. Heat is dissipated by the body by increasing the blood flow to blood vessels in the extremities and the skin. This action causes a decrease in the circulating blood volume and circulatory strain from competing demands for blood flow to the skin, active muscles, and various organs.

Signs and symptoms of heat exhaustion include:

- Weak pulse
- Rapid and usually shallow breathing
- Generalized weakness, fatigue, headache, giddiness
- Pale, clammy skin
- Profuse sweating
- Dizziness, unconsciousness

Should these symptoms appear, move the individual to a cool place and remove as much clothing as possible. Administer cool water, Gatorade, or its equivalent. If possible, fan the individual continually to remove heat by convection, but do not allow chilling or overcooling. Treat the individual for shock, and transport him or her to a medical facility if there is any indication of a more serious problem.

4.1.4 Heat Stroke

Heat stroke is a profound disturbance of the heat-regulating mechanism, associated with high fever and collapse. Sometimes this condition results in convulsions, unconsciousness, and even death. Direct exposure to sun, poor air circulation, poor physical condition, and advanced age (over 40) bear directly on the tendency to suffer heat stroke. It is a serious

advanced age (over 40) bear directly on the tendency to suffer heat stroke. It is a serious threat to life and carries a 20 percent mortality rate. Alcoholics are extremely susceptible. Heat stroke occurs when the body's heat compensation mechanisms (sweat) 'shut down' and no longer function. The symptoms of heat stroke are:

- Sudden onset
- Dry, hot, and flushed skin
- Dilated pupils
- Loss of consciousness, convulsions, coma
- Full and fast pulse
- Breathing deep at first, later shallow and even almost absent
- Body temperature reaching 105°F to 106°F or higher

HEAT STROKE IS A TRUE MEDICAL EMERGENCY. Should these symptoms appear, the victim is to be transported to an emergency facility without delay. Move the individual to a cool environment and remove as much clothing as possible. Assure an open airway. Reduce body temperature promptly, preferably by wrapping in a wet sheet or dousing with water. If cold packs are available, place them under the arms, around the neck, at the ankles, or at any place where blood vessels that lie close to the skin can be cooled. Protect the patient from injury during any convulsions, especially from tongue biting.

4.2 Avoidance of Heat-Related Emergencies

When personnel are working in temperatures greater than 70°F, and especially in situations where personal protective equipment is required, the site health and safety officer must:

- Assure that plenty of noncaffeinated fluids are available
- Encourage employees drink plenty of fluids
- Assure that frequent breaks are scheduled so overheating does not occur
- Revise work schedules, when necessary, to take advantage of the cooler parts of the day

One or more of the following courses of action can reduce the probability heat of stress illness.

- Provide adequate break periods for the type of work being conducted.

- Establish a work schedule that will provide sufficient rotation of team members in and out of stressful situations/tasks.
- Provide adequate shelter and fluids for break periods
- Use portable showers or hose-down facilities for extremely hot conditions.

In the case of heat cramps or heat exhaustion, Gatorade or its equivalent is suggested as part of the treatment regimen. Such beverages will return much needed electrolytes to the body. Without these electrolytes, the body cannot function properly, thereby increasing the health hazard. However, Gatorade and similar electrolyte-containing beverages may not be suitable for some employees (e.g., hypertensive), in which case cool water is preferable.

4.3 Heat Stress Monitoring

For monitoring the body's recuperative ability toward excess heat, one or more of the following techniques should be used as a screening mechanism. Monitoring of personnel wearing impervious clothing must commence when the ambient temperature is 70°F or above. Frequency of monitoring should increase as the ambient temperature increases or as slow recovery rates are indicated. When temperatures exceed 85°F, workers must be monitored for heat stress after every work period.

The following are important considerations:

1. Heart rate (HR) should be measured by the radial pulse for 30 seconds as early as possible in the resting period. The HR at the beginning of the rest period should not exceed 110 beats/minute. If the HR is higher, the next work period should be shortened by 25 percent. The HR is then measured again, once each minute for 2 minutes, (a total of three measurements) after the initial rest period measurement. The HR should decrease by ten beats per minute between each measurement (a total reduction of 20 beats). If HR does not decrease, the next work period should be reduced by 25 percent.
2. Body temperature can be measured orally with a clinical thermometer as early as possible in the resting period. Oral temperature (OT) at the beginning of the rest period should not exceed 99°F. If it is greater than 99°F, the next work period should be shortened by 25 percent. OT should be measured again at the end of the rest period to make sure that it has dropped below 99°F.
3. Body water loss (BWL) due to sweating can be measured by weighing the worker in the morning and in the evening. The clothing worn should be similar at both weigh-ins. The scale should be accurate to plus or minus 0.25 pound.

BWL should not exceed 1.5 percent of the total body weight. If it does, the worker should be instructed to increase his daily intake of fluids by the amount of weight lost. Ideally, body fluids should be maintained at a constant level during the work day. This requires replacement of salt lost in sweat, as well.

4. Good hygienic standards must be maintained by frequent change of clothing and daily showering. Clothing should be permitted to dry during rest periods. Persons who notice skin problems should immediately consult medical personnel.

The frequency of heart-rate monitoring depends on the air temperature, level of work being performed, and type of protective clothing being worn. Temperatures above 70°F indicate the need for monitoring. Suggested frequencies are as follows:

Ambient Temp. (°F)	Level D	Level C
72.5 - 77.0	After 150 minutes of work	After 120 minutes of work
77.5 - 82.5	After 120 minutes of work	After 90 minutes of work
82.5 - 87.5	After 90 minutes of work	After 60 minutes of work
87.5 - 90.5	After 60 minutes of work	After 30 minutes of work
90 and above	After 45 minutes of work	After 15 minutes of work

4.4 Noise

The effects of noise on man include psychological effects (interference with communication by speech, job performance, and safety) and physiological effects such as temporary and permanent hearing loss. Of these the most debilitating is permanent hearing loss.

The factors that affect the degree and extent of hearing loss are intensity or loudness of the noise, type of noise, period of exposure each day, total work duration, and distance from the noise source.

There is a potential for exposure to loud noise associated with heavy equipment. To safeguard workers, all personnel will be required to wear earplugs when working with heavy equipment.

4.5 Biological Hazards

Blood-borne pathogens refers to pathogenic microorganisms that are present in human blood and can cause disease in humans. These pathogens include, but are not limited to,

hepatitis B virus, human immunodeficiency virus, *Clostridium tetani* (tetanus), and *Clostridium perfringens* (gas gangrene).

The only site personnel who might be exposed to this hazard under normal conditions is the Site Safety Officer, in the event he or she is required to render first aid to an injured worker while waiting for emergency personnel. The safety officer will be equipped with a first aid kit that contains gloves, surgical mask, and safety goggles to be used whenever contact with bodily fluids is possible. The kit will also be equipped with a CPR mask that has a one-way valve in the event mouth-to-mouth resuscitation of a worker is required. Antibiotic cleansers will be included in the kit, as will special bags for the containment of medical waste.

Rodents and their fleas are of particular concern during spring, summer, and early fall - their period of greatest activity. Rodents are attracted to landfills because they serve as an easily accessible and abundant food source. Principal hazards associated with rodents include bites and scratches, rat bite fever, and Sylvatic Plague. Plague is transmitted by flea bites from sick, dying, or dead rodents.

All site personnel are to wear boots and long pants at all times. If a rodent is seen, it is not to be approached or touched. Long handled shovels can be used to remove dead rodents for disposal away from the work area.

Solid wastes also may contain a variety of microorganisms. These organisms may include enteric bacteria and viruses that can be transmitted to site workers. Diseases associated with these agents may include diarrhea, polio, hepatitis, typhus, tuberculosis, etc. Other agents of concern are the anaerobic spore forming bacteria of the genus *Clostridia*. The *Clostridia* are transmitted through puncture wounds and may cause, among other diseases, gas gangrene and tetanus.

Site personnel should be mindful of the personal habits and avoid eating, drinking, smoking, or the placement of any object, including fingers, in their mouth while on site. Personnel should watch where they walk and avoid sharp objects. Personnel should be sure to wash thoroughly before eating or drinking.

4.6 Electrical Hazards

Potential for electrical injury to workers is possible at field work-sites. Caution should be exercised in using small portable electrical equipment and field monitoring equipment. Also be alert to buried and overhead electric lines when conducting any activities that disturb soil. Local "Dig Alert" and/or specific utility companies must be contacted and notified prior to any drilling/excavation activities. Workers should also be alert to locations of overhead utility lines and care should be exercised at all times not to disturb or come in contact with them. ASSUME ALL ELECTRICAL LINES ARE

ENERGIZED unless a suitable lockout/tagout procedure has been employed to render the lines safe.

For overhead electrical lines, the minimum clearance to be maintained between the drill rig, hand auger sections, or any other equipment, and the electrical line is shown below:

Table 4-1

Minimum Safe Clearance

Nominal Voltage of Line	Minimum Clearance (feet)
up to 50,000	10
over 50,000 - 75,000	11
over 75,000 - 125,000	13
over 125,000 - 175,000	15
over 175,000 - 250,000	17
over 250,000 - 370,000	21
over 370,000 - 550,000	27
over 550,000 - 1,000,000	42

4.7 Fire or Explosion

Explosion or fire may occur where fuel, oxygen, and heat combine. A potential flammable atmosphere will be assumed to exist whenever the photoionization detector indicates vapor concentrations greater than 500 ppm (0.5 percent). If this condition occurs, work will be stopped until the area is surveyed with a combustible gas indicator.

If the combustible gas indicator shows concentrations that exceeds 20 percent of the lower explosive levels (LEL), work will be stopped and the area evacuated until vapor concentrations are reduced through the use of explosive-proof blowers.

Also, smoking by workers presents a potential for causing explosion or fire; therefore, no smoking is permitted at field work-sites.

4.8 Lifting Hazards

Field operations often require that physical labor tasks be performed. All employees should utilize proper bending and lifting procedures. Whenever an object is to be lifted, the employee should bend at the knees and lift the object using the legs. Additionally, an employee should not attempt to lift bulky or heavy objects (over 30 pounds) without assistance.

5 AIR MONITORING PLAN

During the course of this investigation, the possibility exists that site workers will be exposed to airborne concentrations of the chemicals that have been detected at this facility. To protect workers, the following methods will be employed to measure the concentration of organic vapors in the work area.

5.1 Instruments

Decisions to upgrade or downgrade the protective equipment worn by workers at the site should be based on solid knowledge of the hazards present. To evaluate inhalation hazards, several direct reading instruments will be employed.

5.1.1 Organic Vapor Analyzer

Total Organic Vapor (TOV) concentrations at the site will be measured with a Photovac MP-1000 or HL-2000 Photo Ionization Detector (PID). The PID measures organic vapors by using an ultraviolet lamp to ionize organic compounds in the air stream. The ionized compounds are then measured and converted to a reading as parts per million of organic vapor in air.

The PID will be calibrated prior to the start of each shift using a field calibration standard gas. The PID will not respond to different organic vapors with the same sensitivity. Table 5-1 summarizes the compounds of concern, their ionization potentials, and the instrument response factor.

Table 5-1
PID Response

<u>Substance</u>	<u>Ionization Potential (eV)</u>	<u>Response Factor*</u>
Benzene	9.25	0.6
Diesel Fuel	N/A	N/A
Ethylbenzene	8.76	NA
Gasoline (n-heptane)	10.07	3.7
Toluene	8.82	0.5
Xylenes	8.56	NA

* Instrument calibrated to 100 ppm isobutylene with a 10.6 eV lamp.

5.1.2 Colorimetric Tubes

The concentrations of individual organic compounds will be quantified with colorimetric detector tubes. The detector tubes operate by drawing a fixed amount of the air to be sampled through a glass tube, where it reacts with a reagent and produces a stain that can be read as concentration in air. It is important to read the instructions for each different tube prior to use, as cross contamination is often encountered.

The pump should be checked for leaks before each use by inserting a sealed tube and squeezing the bellows. If the pump holds pressure for one minute, no leaks are present. If the pump leaks it must be replaced. Break the tips off the appropriate tube, and follow the package instructions on how to obtain a sample.

Tubes specific for benzene should be used when the PID indicates organic vapors in the breathing zone exceed 10 ppm over the background level.

5.2 Action Levels

Measured concentrations of particulates and organic vapors will be entered onto an air monitoring form included in Appendix A. If the concentrations of various chemicals exceed the lower of the PEL, mitigation measures will be instituted. Mitigation measures will include engineering controls such as increased dust control practices using water spray, using explosive-proof blowers, reducing dust-or vapor-generating activities, and work slow-downs. The monitoring frequency will then be increased to verify that the engineering controls are sufficient. If engineering controls do not reduce the measured concentrations below the Action Levels, site personnel will be equipped with suitable respiratory protection.

For TOV levels as measured by the OVA, the following action levels will be adhered to:

Table 5-2
TOV Action Levels

<u>TOV in the breathing zone</u>	<u>Response</u>
30 ppm	No respiratory protection mandated
31 - 300 ppm	Minimum of 1/2 Face Air Purifying Respirator (APR) with dust/mist prefilter and Organic Vapor cartridges. Maximum Protection Factor = 10 x PEL.

301 - 1,000 ppm	Minimum of Full Face Air Purifying Respirator (APR) with dust/mist prefilter and Organic Vapor cartridges. Maximum Protection Factor = 50 x PEL.
Over 1,000 ppm	Positive Pressure supplied-air device.

This table is based on 1/3 of the PEL for gasoline, and a PID response factor of 100 percent. As the action level is reduced to 1/3 of the PEL, and the PID response factor for gasoline is actually 370 percent, these levels represent a significant safety factor. The site safety coordinator must review these action levels if evidence becomes available of other substances being present.

Note that this table is superseded if, at any time, a detector tube indicates that a substance is present at or above its PEL, after taking into account the accuracy of the tube as stated in its instructions.

5.3 Personnel Responsibilities

The Health and Safety Coordinator (HSC) and the Site Safety Officer (SSC) shall be responsible for determining whether additional exposure monitoring/sampling is needed to supplement the equipment and methods described above. A revised sampling plan will then be developed by the HSM and implemented by the SSC.

The SSC shall ensure that appropriate air monitoring equipment is available for use prior to the start of any work. The SSC will perform site air monitoring during the course of the project. The SSC shall also ensure that monitoring instruments are used only by persons who have had prior training and experience in their operation, calibration and care, and who understand their limitations. The SSC shall also ensure that the instruments are properly calibrated and recharged regularly, and that the proper operation of the instruments are checked daily. A calibration log form is included in Appendix B.

6 STANDARD WORKER PROTECTION

This section identifies the methods that will be implemented by EMCON to reduce worker exposure to the chemical and/or physical hazards identified at this project location. Protective methods can be classified as engineering controls or personal protective equipment.

6.1 Engineering Controls

Engineering controls include all measures designed to minimize the possibility of allowing an inhalation hazard to occur. Engineering controls are to be the first step in reducing worker exposure at this site.

6.1.1 Control Zones

To control access to potentially contaminated areas, the Site Safety Officer will establish limited access control zones as follows.

Exclusion Zone

An exclusion zone will be established around any operations where contaminated soil or groundwater is present. No one will be allowed in the work area unless they are equipped with the equipment the SSC has deemed necessary and they have read this Safety Plan.

Contamination Reduction Zone

A CRZ will be established outside the exclusion zone. No personnel or equipment will be allowed to leave the CRZ without first being decontaminated in accordance with Section 7. The CRZ can either extend around the entire hot zone if space permits, or it can just be located at the access control points.

Personnel assisting workers with decontamination must be utilizing personal protective equipment (PPE) of the same type as the workers in the exclusion zone. In any situation where contaminated soils are present, the minimum protective equipment will be Tyvek coveralls and nitrile gloves. If the possibility of contact with contaminated liquid or

product exists, the minimum personal protective equipment will be nitrile gloves, and a splash suit impermeable to liquids.

Support Zone

The support zone consists of the remainder of the site area. No possibility of exposure to toxic contaminants is expected in this area, and no special protective methods will be needed. All workers in the support zone, however, will need to comply with standard job site safety requirements.

6.1.2 Forced Ventilation

In the event that vapors exceed the permissible limits, explosive-proof blowers may be used to disperse the vapors and lower the concentrations. Periodic monitoring will be increased to document the effectiveness of the ventilation.

6.1.3 Material Control

All solid materials generated during this investigation will be placed in covered receptacles, such as steel drums or roll-off bins. Liquid wastes will be stored in steel drums or portable tanks. All waste receptacles are to be appropriately labeled.

6.2 Level D Protection

EPA Level D Personal Protective Equipment is acceptable for areas with no inhalation hazard, or where the hazard has been demonstrated to be below the action levels. Level D protection will include:

- Worker overalls or other suitable work clothes.
- Safety boots with steel toe and shank
- Safety glasses or goggles
- Hard hat

Nitrile gloves and Tyvek overalls are to be used when handling samples of contaminated soil. Nitrile gloves with latex inner gloves and an impermeable splash suit are to be used when handling liquid materials or samples.

6.3 Level C Protection

Level C Protection is suitable for use when limited concentrations of the chemicals of concern are present. Level C will consist of the following equipment:

- Tyvek coveralls or equivalent
- Safety boots with steel toe and shank
- Safety glasses or goggles
- Hard hat
- Nitrile gloves with latex inner gloves
- Half- or Full-face Air Purifying Respirator (APR) with organic vapor cartridges and dust prefilters. Half face respirators provide protection up to 10 times the action level. Full face respirators provide protection up to 50 times the action level.

6.4 Level B Protection

If the inhalation hazards exceed the safe use limitations of the air purifying respirator equipment (any contaminant greater than 50 times its action level), the following protective equipment will be employed.

- Tyvek coveralls or equivalent
- Safety boots with steel toe and shank
- Hard hat
- Nitrile gloves with latex inner gloves
- Pressure-demand (positive pressure) full-face, self-contained breathing apparatus (SCBA) or airline respirator with escape SCBA operated in positive pressure mode.

7 DECONTAMINATION PROCEDURES

The following procedures will be implemented to minimize the spread of contaminants at this site.

7.1 Worker Decontamination

Anyone exiting a designated exclusion zone will do so through an access control point. The worker will proceed into the contamination reduction zone. Under no circumstances is dust to be shaken off equipment or clothing. The decontamination will proceed as follows:

1. Wash and rinse any hard tools that will be leaving the CRZ.
2. Removal disposable clothing by rolling it down the body. Place clothing in appropriate waste receptacle.
3. Remove and dispose of gloves.
4. Remove respirator. Dispose of filters in waste receptacle. Clean and rinse respirator prior to storage.
5. Remove and dispose of any inner gloves.
6. Proceed immediately to wash facility and wash hands and face. If work has concluded for the day, the worker should completely shower as soon as practical.

7.2 Heavy Equipment Decontamination

Prior to exiting the exclusion zone, all heavy equipment that was in contact with contaminated soil or water will be steam cleaned by workers in Level C equipment. All rinsate must be collected and appropriately disposed of.

8 TRAINING REQUIREMENTS AND CONTINGENCIES

This section identifies the minimum training requirements for workers at this site, and identifies site-specific training requirements and site contingency plans.

8.1 Training

At the time of assignment to this project, field personnel shall have completed at least 40 hours of off-site instruction in the health and safety issues involved in hazardous substance site work. Additionally, site personnel must have a minimum of 3 work days (24 hours) of actual field experience under the direct supervision of a trained, experienced supervisor. Employees who can show by documentation of work experience and/or training that they have had the equivalent to the stated requirements shall be considered as meeting these initial training requirements. Each site worker must sign and date a Personal Acknowledgment (see Appendix E) stating that he or she has read and understood this HASP. Site supervisors must complete an additional 8 hours of supervisory training.

The site safety officer or his designate must conduct and document (see Appendix C) a tailgate safety meeting at the beginning of field activities, whenever new personnel arrive at the site, as site conditions change, or as needed.

8.2 Contingency Plans

The site safety officer will be responsible for maintaining a clean job site free from hazards and providing safe egress from the site. Cones and/or barricades and high visibility surveyor tape will be utilized for traffic control, if needed, and for limiting access to hazardous and restricted areas.

Prior to work startup, emergency medical procedures and lines of communication will be established. The fire department, ambulance service, project personnel, and directions to the nearest hospitals with an emergency room are identified in Table 8-1. Communications will be with a mobile phone located on site.

A vehicle shall be available on site during work activities to transport injured personnel to the identified emergency medical facilities. The designated route to those facilities are

described in Table 8-1 and shown on Figure 1. Telephone numbers and locations for emergency room assistance shall be posted at the site.

At a minimum, one site worker will be capable of rendering standard first-aid and cardiopulmonary resuscitation (CPR). A first-aid kit, an adequate supply of fresh water, and a portable emergency eyewash fountain will be available at the work site.

Emergency phone numbers (see Table 8-1) will be posted for the fire department, ambulance service, and nearest emergency medical clinic/hospital. The fastest route to the clinic/hospital, along with emergency telephone numbers, shall be prominently posted in the work area. The site safety coordinator will be the lead person in emergency situations.

Should an accident occur, the site safety coordinator, or his designate, will immediately notify the project manager, complete an accident report (see Appendix D), and investigate the cause. Any recommended hazard control measures must be discussed with the site coordinator and meet with his approval prior to implementation. Any chemical exposures or occupational injuries and illnesses shall also be reported to the site safety coordinator and recorded, if recordable, on a Cal-OSHA Form No. 200. If a fatality occurs, five or more persons are admitted to a hospital, or property damage in excess of \$700 occurs, the accident will be reported immediately to the Occupational Safety and Health Administration (OSHA) and to the State of California Department of Industrial Relations. Records of all site accidents and first aid treatments will be maintained by the project manager or site safety coordinator. Additionally, records of recordable work place injuries and illnesses are routinely maintained at EMCON's office for at least 5 years, as required by OSHA.

Table 8-1

Emergency Assistance Information

Fire Department/Paramedic/Ambulance Service	911
Underground Service Alert	(800) 422-4133
Site Safety Officer	(Office Hours 8:00 a.m. to 5:00 p.m.) (After Office Hours)
Project Manager	Ms. Erin O'Connell (818) 841-1160
Regional Health and Safety Coordinator	Mr. Brian Primeau (818) 841-1160

EMERGENCY MEDICAL FACILITY INFORMATION:

St. Joseph's Medical Center
Corner of Buena Vista and Alameda
Burbank, California
(818) 843-5111

Proceed north on Flower to Olive; turn south (left). Proceed to Buena Vista and turn right. The hospital is located one block south, on the left.

9 TASK SPECIFIC SAFETY REQUIREMENTS

This section includes a discussion of specific hazards and procedures to mitigate those hazards for each of the tasks to be conducted as part of this project.

9.1 Drill One 40-Foot Boring

Site personnel should stay upwind of the drill rig whenever feasible. Air monitoring in accordance with Section 5.0 should be implemented during drilling, and protective measure will be taken in accordance with Section 6.0 whenever vapors are encountered.

The drill rig should only be operated by qualified personnel. No person should be within 2 feet of the auger when it is turning. The drill rig should be moved only with the mast in a lowered position.

Drums of drilling spoils and washwater should be moved by two people using mechanical assistance.

9.2 Excavate contaminated soil

Air monitoring should be conducted in accordance with Section 5.0 of this document to protect site workers and ensure that no off-site emissions occur. If vapors are encountered, engineering controls such as water misting should be implemented to reduce emissions.

Heavy equipment should only be operated by appropriate trained and experienced personnel. Prior to starting work, the site safety coordinator should ensure that no possibility of violating the minimum safe clearance distances in Section 4.6 exists. Any proposed excavation must be cleared of underground utilities by the appropriate companies. Site personnel should wear orange safety vests and stay clear of operating equipment.

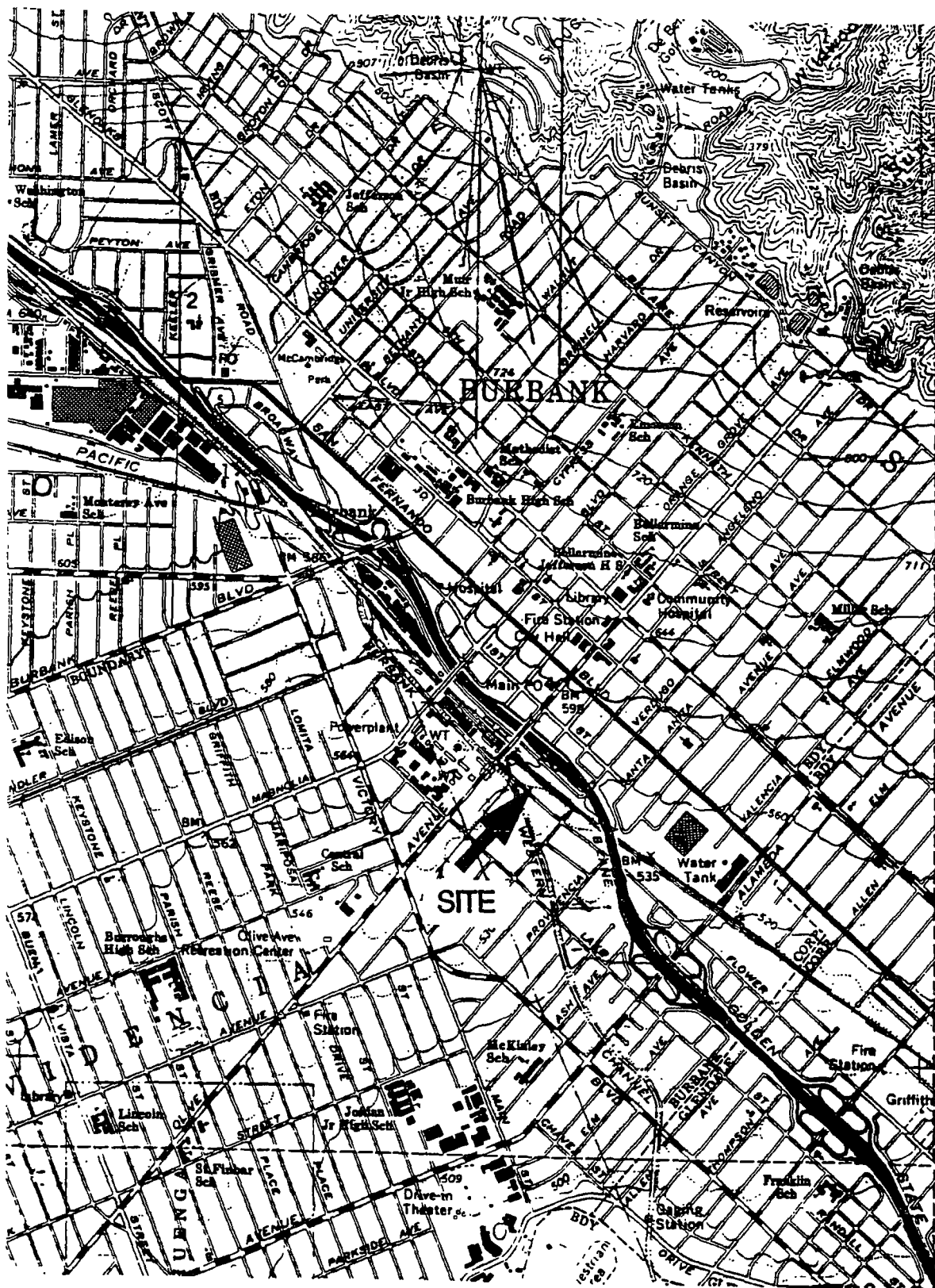
Excavations must comply with applicable OSHA excavation and grading standards. Stockpiles should be at least 3 feet from the edge of any excavation. No personnel may enter an excavation greater than 4 feet deep unless the excavation has been appropriately sloped, as verified in writing by an engineering geologist, or shored, as verified by a

registered civil engineer. At the end of each shift, the excavation must be thoroughly guarded by locked fences, warning tape, barricades, and/or warning lights to prevent the possibility of a trespasser falling in.

9.3 Backfilling

Heavy equipment should only be operated by appropriate trained and experienced personnel. Prior to starting work, the site safety coordinator should ensure that no possibility of violating the minimum safe clearance distances from electrical lines specified in Section 4.6 exists. Any proposed excavation must be cleared of underground utilities by the appropriate companies. Site personnel should wear orange safety vests and stay clear of operating equipment.

Excavations must comply with applicable OSHA excavation and grading standards. Stockpiles should be at least 3 feet from the edge of any excavation. No personnel may enter an excavation greater than 4 feet deep unless the excavation has been appropriately sloped, as verified in writing by an engineering geologist, or shored, as verified by a registered civil engineer. At the end of each shift, the excavation must be thoroughly guarded by locked fences, warning tape, barricades, and/or warning lights to prevent the possibility of a trespasser falling in.



EMCON

FORMER JERGENS FACILITY
99 WEST VERDUGO
BURBANK, CALIFORNIA

SITE LOCATION MAP

FIGURE

1

PROJECT NO.
2349-600.01

Table 1
Health Effects

Substance	Ca/OSHA PEL-TWA	NIOSH IDLH Limits	Ca/OSHA PEL-STEL	Ca/OSHA CEILING	Routes of Exposure	Acute Health Effects/Signs and Symptoms
Benzene	1 ppm	500 ppm	5 ppm	N/A	Inhalation, ingestion, skin absorption	Respiratory, skin, eye and mucous membrane irritation. Nerve inflammation, CNS depression, and cardiac sensitization. Dizziness, euphoria, headache, nausea, drowsiness, lung tissue fluid build-up, pneumonia, convulsions, and paralysis.
Toluene	100 ppm	2,000 ppm	150 ppm	500	Inhalation, skin absorption, ingestion	Eye, skin, and respiratory tract irritation; peculiar skin sensation of numbness or pins-and-needles feeling; fatigue, headache, weakness, dizziness, drowsiness, and confusion; difficulty seeing in bright light.
Ethylbenzene	100 ppm	2,000 ppm	125 ppm	N/A	Inhalation, skin absorption, ingestion	Eye, skin, and respiratory tract irritation; peculiar skin sensation of numbness or pins-and-needles feeling; fatigue, headache, weakness, dizziness, drowsiness, and confusion; difficulty seeing in bright light.
Xylenes	100 ppm	1,000 ppm	150 ppm	300	Inhalation, ingestion skin absorption	Eye, nose, or throat irritation; sever breathing difficulty (can be a delayed effect); dizziness, staggering, drowsiness, and unconsciousness; loss of appetite, nausea, vomiting, and abdominal pain.
Tetraethyl Lead	0.10 mg/m ³	40 mg/m ³	N/A	N/A	Inhalation, ingestion, skin absorption	Intoxication; difficulty in sleeping, tiredness, anxiety; trembling, spasms, nausea, loss of appetite, disorientation, hallucinations, grimacing, manic or violent convulsive seizures; unconsciousness, death; fetal damage or injury.
Gasoline	300 ppm	N/A	500 ppm	N/A	Inhalation, ingestion, skin absorption	Irritate eyes, skin, mucous membranes; dermatitis; headache, fatigue, blurred vision; slurred speech; confusion; convulsions; possible liver, kidney damage

NA Not Available
TWA Time Weighted Average
STEL Short Term Exposure Limit
IDLH Immediately Dangerous to Life or Health
Ceiling - Ceiling Limit

REFERENCES

1. California Code of Regulations, Title 8, Section 5155.
2. National Institute for Occupational Safety and Health, 1994. Pocket Guide to Chemical Hazards, DHHS (NIOSH) Publication
3. American Conference of Governmental Industrial Hygienists, 1994-95 Threshold Limit Values

APPENDIX A
AIR MONITORING FORM

AIR MONITORING RECORD

Project: _____ Date: _____

Location: _____

Technician performing monitoring: _____

Instrument Data

Instrument No.	Type & Model	Serial No.
1		
2		
3		

Field Calibration Data

(Note: SCAQMD Rule 1166 requires PID/FID calibrated to 50 ppm Hexane)

Instrument No.	Calibration Gas & Conc.	Calibration Time	Verification Time	Verification Time	Verification Time
1					
2					
3					

AIR MONITORING DATA

Time	Instrument No.-Type	Concentration	Notes

APPENDIX B
TAILGATE SAFETY MEETING FORM

TAILGATE MEETING FORM

Date:_____ Time:_____ Job Number:_____

Client:_____ Address:_____

Site Location:_____

Scope of Work:_____

Safety Topics Presented

Protective Clothing/Equipment:_____

Chemical Hazard:_____

Physical Hazard:_____

Special Equipment:_____

Other:_____

Emergency Procedures:_____

Hospital Address and Route:_____

APPENDIX C
INJURY/ACCIDENT FORMS

*****THIS REPORT MUST BE COMPLETED IN FULL AND SUBMITTED
WITHIN 24 HOURS OF THE ACCIDENT/LOSS TO PERSONNEL**

ACCIDENT/LOSS REPORT

Date of Accident: _____ Company: _____
Time Occurred: _____ Project Number: _____
Where Occurred: _____ Name and Location of Project _____

PART I - PROPERTY DAMAGE/LOSS

Equipment Involved: _____
Names of Persons Involved: _____
Describe Incident/Damage: _____

Estimate Cost of Damage: _____

Police Report must be filed on all automobile accidents and on all equipment thefts. Copy of Police Report must also be submitted.

DRAW DIAGRAM OF INCIDENT ON THE BACK OF THIS REPORT

PART II - PERSONAL INJURY - Fill out only if personal injury occurred.

Name of Employee Injured: _____ Age: _____ SS# _____
Address: _____ Occupation: _____
What was employee doing when injured?: _____
Exact location where injury occurred (station no. or prominent landmark): _____

Was place of accident or exposure on job site?: _____
Describe injury: _____

How did injury occur?: _____

Did employee see a doctor or go to the hospital? _____ If yes, give name, address, and phone number of doctor or hospital: _____
Did employee lose time? If yes, how long, date returned to work: _____

Number of days employee usually worked a week: _____ Number of hours worked: _____
Date of birth: _____ Wage Rate _____ hr. _____ wk. _____ mo. _____ yr. Phone number _____

APPENDIX D
PERSONAL ACKNOWLEDGMENT

PERSONAL ACKNOWLEDGMENT

A component of the Health and Safety Plan (HASP), designed to provide personnel safety during this subsurface investigation requires that you receive training as described in the HASP (Section 8) prior to working at the site. Additionally, you are required to read and understand the HASP. When you have fulfilled these requirements, please sign and date this personal acknowledgment:

EMCON EMPLOYEES:

_____ Name (Printed)	_____ Signature	_____ Date
_____ Name (Printed)	_____ Signature	_____ Date
_____ Name (Printed)	_____ Signature	_____ Date
_____ Name (Printed)	_____ Signature	_____ Date
_____ Name (Printed)	_____ Signature	_____ Date

SUBCONTRACTOR EMPLOYEES:

_____ Name (Printed)	_____ Signature	_____ Date
_____ Name (Printed)	_____ Signature	_____ Date
_____ Name (Printed)	_____ Signature	_____ Date
_____ Name (Printed)	_____ Signature	_____ Date
_____ Name (Printed)	_____ Signature	_____ Date

ATTACHMENT 8
LIMITATIONS

LIMITATIONS

The purpose of a geologic/hydrogeologic study is to reasonably characterize existing site conditions based on the geology/hydrogeology of the area. In performing such a study, it is understood that a balance must be struck between a reasonable inquiry into the site conditions and an exhaustive analysis of each conceivable environmental characteristic. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to describe all geologic/hydrogeologic conditions of interest at a given site. If conditions have not been identified during the study, such a finding should not, therefore, be construed as a guarantee of the absence of such conditions at the site, but rather as the result of the services performed within the scope, the limitations, and the cost of the work performed.

We are unable to report on or accurately predict events that may change the site conditions after the described services are performed, whether they occur naturally or are caused by external forces. We assume no responsibility for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when services were performed.

Geologic/hydrogeologic conditions that cannot be identified solely by visual observation may exist at the site. Where subsurface exploratory work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations. The data may not represent actual conditions at unsampled locations.

ATTACHMENT 9
PROPOSED SITE ACTIVITY SCHEDULE

Proposed Schedule of Work
Former Jergens Facility
99 W. Verdugo Avenue, Burbank, California

Proposed Task	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Plan Approval by CBFD	◆									
Prep of Health and Safety Plan		■								
Scheduling and Prefield Work		■								
Field Activities: Drilling soil boring and collecting samples			■							
Sample Analysis			■	■	■					
Field Activities: Excavation/Sampling/Rule 1166/Photo/Stockpiling					■	■				
Sample Analysis						■	■	■		
Schedule Backfill of Tank Excavations: Arrange for import soils, apply for WDR for tank 5,6, & 8 excavation								■		
Backfill Excavations								■	■	
Transportation and Offsite Disposal of Remaining Soils, if required									■	■
Preparation of Draft Summary Report and Submittal to Jergens									■	■
Review of Summary Report by Jergens										■
Preparation of Final Summary Report and Submittal to CBFD										■

C



CITY OF BURBANK
275 EAST OLIVE AVENUE, P.O. BOX 8459, BURBANK, CALIFORNIA 91510-6459

October 31, 1995

Mr. Anthony J. Scrudato
Production Superintendent
THE ANDREW JERGENS COMPANY
2535 Spring Grove Avenue
Cincinnati, Ohio 45214-1773

**RE: SITE INVESTIGATION WORK PLAN - 99 WEST VERDUGO AVE,
BURBANK, CA**

Dear Mr. Scrudato:

We have reviewed your consultant's (Emcon, Inc.), work plan dated September 20, 1995, for the additional site investigation activities to be conducted within and adjacent to the former underground storage tanks located at the above referenced site.

We have reviewed the information obtained to date and the proposed work plan to further assess the extent of contamination. We have no objections to its implementation, provided that all work is completed as specified in the work plan in compliance with all Burbank Fire Department subsurface investigation requirements and the following site-specific modifications are made:

1. Install one additional exploratory soil boring to the East of tanks 7 and 8. The boring shall extend to 40 feet bgs with soil samples collected at 5 foot intervals.
2. Over excavation of soils surrounding the clarifier is limited to 30 feet bgs. Confirmation sample collection to insure removal of all impacted soils will be collected as requested during the excavation activities. The hydrocarbon scan/fuel characterization performed detected concentrations ranging from 1,800 to 3000 mg/kg within the C₄ through C₃₀ hydrocarbon chain. Please provide information as to which hydrocarbon chain (C₈-C₁₂, C₁₃-C₂₃, C₂₄-C₄₀), best identifies the contaminant. This information will be used to determine which analysis will be required for the confirmation samples.

As stated during our October 26, 1995, meeting we have no objection to using, as back fill material, the 350 cubic yards of stockpiled soils located on the site for the excavation associated with tanks 1, 2, and 3.

Jergens (Cont'd)
October 30, 1995
Page 2

However, soils analyzed that contain higher concentrations than those outlined in the Regional Board's interim site assessment and cleanup guidebook for the respective hydrocarbon chain will not be permitted to be used as back fill.

Please note, this letter is only intended to approve the implementation of the site investigation and not the implementation of any remedial work associated with tank 5, 6, 7, and 8. Once the extent of contamination has been defined both vertically and horizontally, you will be asked to submit a remedial action plan.

If you have any questions regarding this matter, please call me at (818) 238-3473.

Thank you for your cooperation.

Michael W. Davis
Fire of Fire Department

BY 

Josef Solares, Inspector
Underground Storage Tank Unit

MWD:JRS:jw

cc: Erin K. O'Connell, Emcon
Sally W. Bilodeau, Emcon
Dennis Ward, The Andrew Jergens Company
Gregory A. Cunningham, The Andrew Jergens Company
Michael W. Davis, Fire Chief
Al Novak, Los Angeles Regional Water Quality Control Board

solaras/jergens.o95

**EMCON**

3300 N. San Fernando Boulevard • Burbank, California 91504 • (818) 841-1160 • Fax (818) 846-9280

December 13, 1995

Project 2349-600.001

Inspector Josef R. Solares
Underground Tank Unit
City of Burbank Fire Department
353 East Olive Avenue
Burbank, California 91502-1282

Re: Remedial Action Plan for Additional Site Remediation
Former Andrew Jergens Facility
99 West Verdugo Avenue, Burbank, California

Dear Inspector Solares:

EMCON, on behalf of The Andrew Jergens Company (Jergens), is submitting this Remedial Action Plan (RAP) for additional remediation activities at the former Jergens facility at 99 West Verdugo Avenue, in Burbank, California (Figure 1). The additional remediation is proposed in the vicinity of former tanks 5, 6, and 8. This remediation work was originally proposed in EMCON's Workplan for Additional Site Investigation and Remediation (Workplan) dated September 20, 1995. This RAP is being submitted in response to the City of Burbank Fire Department (CBFD) letter dated October 31, 1995.

A final report summarizing the investigation and remediation activities conducted at the site will be prepared and submitted to the CBFD at the conclusion of the site activities. This report will contain a summary of the site divestment and remediation activities, field procedures, boring logs, figures, tables, and laboratory analyses.

BACKGROUND

The site is located within the City of Burbank and is bordered by Verdugo Avenue to the southeast, Flower Street to the southwest, and by Olive Street and the Southern Pacific Railroad tracks to the northwest and southwest, respectively. The approximately 4.9 acre site was formerly occupied by a facility owned and operated by Jergens from the 1920s until 1992. The facility was used to manufacture soap and associated products and has been decommissioned. The buildings have been demolished.

TANK CLOSURE ACTIVITIES

On March 8 and 22, 1995, four USTs (tanks 5 through 8) were excavated and removed from the north-central portion of the site (Drawing 1) (J.K. Bryant, July 6, 1995). Soil samples collected beneath tanks 5, 6, and 8 were reported to be impacted with TRPH concentrations ranging from 16,000 to 35,000 mg/kg (Table 1). Soil excavated during



the removal of tank 5 was stockpiled and covered with polyethylene sheeting, and the tank 5, 6, 7, 8 excavation was backfilled the excavated soils.

Assessment Activities

On April 28, 1995, soil borings B-1 through B-3 were drilled in the vicinity of the tank 5, 6, 7, and 8 excavation. The boring locations are illustrated on Drawing 1, and the boring logs are included in Attachment 4. On December 1, 1995, two exploratory soil borings (B-6 and B-7) were drilled on-site to a maximum depth of 51.5 feet below ground surface (bgs). Soil boring B-6 was drilled through the approximate center of the footprint of the former tank 5, 6, and 8 excavation to delineate the vertical extent of hydrocarbon-impacted soil. Boring B-7 was drilled at an approximately 20-degree angle to assess the lateral extent of hydrocarbon-impacted soil to the north of the former tanks.

Undisturbed soil samples from each boring were collected at 5-foot depth intervals. These samples were collected for laboratory analysis and field hydrocarbon vapor readings, and were logged by a California-registered geologist using the Unified Soil Classification System (ASTM D2488). Upon completion of the sampling, the soil borings were backfilled to the ground surface with bentonite chips hydrated in 3 foot lifts. Soil cuttings generated during the drilling activities were placed in labeled, 55-gallon Department of Transportation (DOT) approved drums and stored on the property pending final characterization.

The field procedures for drilling and sampling the soil borings are included in Attachment 1. The analytical results and chain-of-custody documentation are included in Attachments 2 and 3. Exploratory boring logs are included in Attachment 4. The analytical results are summarized in Table 2.

Soil samples collected from borings B-1, B-2, B-3, B-6, and B-7 were submitted under standard chain-of-custody documentation to Golden State/CAS, a state-certified (No. 1296) analytical laboratory. The samples were analyzed for the presence of hydrocarbons using hydrocarbon scan/fuel characterization by U.S. EPA Method Modified 8015. In addition, each sample was analyzed for BTEX using U.S. EPA Method 8020.

TPH and benzene concentrations were not reported at concentrations above method reporting limits in the soil samples collected from borings B-1, B-2, B-3, and B-7 (Table 2). The soil samples collected at depths of 5, 10, and 15 feet bgs contained concentrations of petroleum hydrocarbons ranging from 66 mg/kg to 10,000 mg/kg (Table 2 and Attachment 4). The results are illustrated on cross-sections A-A' and B-B'. These results indicate that the horizontal and vertical extent of hydrocarbon-impacted soil has been delineated.

REMEDIAL ACTION PLAN

This RAP is for additional remediation in the vicinity of former tanks 5, 6, and 8. The soil borings in the vicinity of these tanks (borings B-1, B-2, B-3, B-6, and B-7) have delineated the vertical and horizontal extent of impacted soils.

The proposed work will be conducted consistent with the CBFD closure guidelines (Method #2, Post Removal Procedures). A representative of the CBFD will be notified of the start date and time of the field activities associated with this workplan at least 48 hours prior to starting the work.

Task 1 - Prefield Activities

On behalf of Jergens, EMCON will contract with and schedule an excavator and operator to excavate the impacted soils beneath tanks 5, 6, and 8 (Drawing 1). The work will be conducted under the subcontractor's Rule 1166 Monitoring permit from the South Coast Air Quality Management District. In addition, EMCON will also notify the City of Burbank Fire Department prior to conducting the field work.

A site-specific health and safety plan for the proposed work was included in Attachment 7 of the Workplan dated September 20, 1995. A copy of the plan will be present on site during the field activities.

Task 2 - Field Activities

EMCON will oversee and direct the excavation of the impacted soils beneath tanks 5, 6, and 8, to the total depth of impacted soils or a maximum depth of approximately 30 feet below ground surface. EMCON will perform Rule 1166 air monitoring during the excavation work consistent with the South Coast Air Quality Management District guidelines. EMCON will collect up to 10 soil samples from the sidewalls and base of the excavation. EMCON will segregate the impacted soils and clean soils using the air monitoring results and visual observation, and place the impacted soils on Visqueen plastic. These soils will also be covered with Visqueen plastic.

The confirmatory soil samples collected from the tank 5, 6, and 8 excavation will be analyzed for hydrocarbon scan/fuel characterization and BTEX. Photographs of the excavation, sampling, and stockpiling activities will be taken. The stockpiles will be sampled and analyzed for characterization and disposal.

Task 3 - Tank 5, 6, and 8 Excavation Backfill

The analytical results of the samples collected from the stockpiles generated during the excavation, will be used to characterize these soils for disposal. If the soils meet the CBFD and RWQCB requirements for use as on-site backfill, the soil will be used as backfill for the tank 5, 6, and 8 excavation. If the analytical results are such that the soils must be transported and disposed of off site, manifests or other documentation of appropriate disposal will be submitted to the CBFD in the summary report.

Task 4 - Preparation of Summary Report

EMCON will prepare a report summarizing the site history, field activities, and analytical results, and present conclusions and recommendations for the site. This report will include site maps showing soil sample, boring, and excavation locations. The report will also include the chain-of-custody documentation and certified analytical reports from the laboratory.

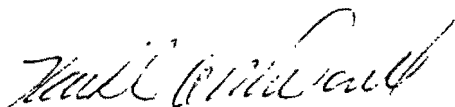
This RAP has been prepared consistent with current and generally accepted environmental consulting principles and practices that are within the limitations described in Attachment 6. The work will be scheduled once the CBFD has reviewed and approved this RAP. If you have any questions or require additional information, please contact Erin O'Connell at (818) 841-1160, ext. 316.

Sincerely,

EMCON



Erin K. O'Connell
Project Geologist



Sally W. Bilodeau
Director of Hazardous Waste Services

Inspector Josef R. Solares
December 13, 1995
Page 5

Project 2349-600.001

Attachments: References

Table 1 - Summary of Soil Analytical Results - Petroleum Hydrocarbons
and BTEX

Table 2 - Summary of Soil Analytical Results - Soil Borings

Table 3 - Summary of Soil Analytical Results - Volatile Organic
Compounds

Table 4 - Summary of Soil Analytical Results - Metals

Figure 1 - Site Location Map

Figure 2 - Cross Section A-A'

Figure 3 - Cross Section B-B'

Drawing 1 - Site Map

Attachment 1 - Drilling and Sampling Procedures

Attachment 2 - Boring B-1 through B-3 Analytical Results and Chain-
of-Custody Documentation

Attachment 3 - Boring B-6 and B-7 Analytical Results and Chain-of-
Custody Documentation

Attachment 4 - Boring Logs B-1, B-2, B-3, B-6, and B-7

Attachment 5 - Limitations

REFERENCES

- CBFD, July 11, 1995, Request for Workplan, Former Jergens Facility, 99 West Verdugo Avenue, Burbank, California: City of Burbank Fire Department, Burbank, California
- CBFD, October 31, 1995, Review of Site Investigation Workplan, Former Jergens Facility, 99 West Verdugo Avenue, Burbank, California: City of Burbank Fire Department, Burbank, California
- J.K. Bryant, June 6, 1995, UST Closure Report for 99 West Verdugo Avenue, Burbank, California: Jack K. Bryant Engineers, Torrance, California.
- EMCON, September 20, 1995, Workplan for Additional Site Investigation and Remediation, Former Andrew Jergens Facility, 99 Verdugo Avenue, Burbank, California: EMCON, Burbank, California.

TABLES

TABLE 1
Summary of Soil Analytical Results
Petroleum Hydrocarbons and BTEX
The Andrew Jergens Facility
99 West Verdugo, Burbank, California

Sample ID	Sample Date	Sample Depth	TPH (Gas) (mg/Kg)	TPH (Diesel) (mg/Kg)	TRPH (mg/Kg)	Extractable Petroleum Hydrocarbon Finger Print				Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total Lead (mg/Kg)	
						TPH (Total) (mg/Kg)	C8-C12 (Gasoline) (mg/Kg)	C13-C23 (Diesel) (mg/Kg)	C24-C40 (Motor Oil) (mg/Kg)						
EPA Method			8015m	8015m	418.1	8015M				8020 (BTEX)			3050/6010		
Method Reporting Limit (MRL)			0.1	10	10	10	10	10	10	0.005	0.005	0.005	0.015	5	Lab
1A	2/16/95	15'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
1B	2/16/95	15'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
2A	2/16/95	15'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
2B	2/16/95	17'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
3A	2/16/95	15'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
3B	2/16/95	16'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
4A	2/16/95	20'	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--	STS
4B	2/16/95	20'	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--	STS
5A	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5B	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5C	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5D	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5E	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5F	2/16/95	8'	--	--	76	--	--	--	--	ND	ND	ND	ND	--	STS
5G	2/16/95	8'	--	--	53	--	--	--	--	ND	ND	ND	ND	--	STS
5H	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5I	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
5J	2/16/95	8'	--	--	57	--	--	--	--	ND	ND	ND	ND	--	STS
5K	2/16/95	8'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
6	2/16/95	11'	--	--	ND	--	--	--	--	ND	ND	ND	ND	--	STS
WTN	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
WTS	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
MTN	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
MTS	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
ETN	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
ETS	2/16/95	--	--	ND	--	--	--	--	--	--	--	--	--	--	CAS
EB-1	2/24/95	1'	ND***	--	--	--	--	--	--	--	--	--	--	--	CAS
EB-1	2/24/95	5'	ND***	--	--	--	--	--	--	--	--	--	--	--	CAS
EB-1	2/24/95	10'	ND***	--	--	--	--	--	--	--	--	--	--	--	CAS
EB-1	2/24/95	15'	ND***	--	--	--	--	--	--	--	--	--	--	--	CAS
STOCKPILE#1	2/14/95	--	--	--	--	680	116	552	8	ND	0.025	0.029	0.21	--	STS
STOCKPILE #2	2/14/95	--	--	--	--	110	3	104	2	ND	ND	ND	0.13	--	STS
PLASTIC LINED STOCKPILE	2/14/95	--	--	--	--	230	29	195	2	ND	ND	0.011	0.13	--	STS

TABLE 1
Summary of Soil Analytical Results
Petroleum Hydrocarbons and BTEX
The Andrew Jergens Facility
99 West Verdugo, Burbank, California

Sample ID	Sample Date	Sample Depth	TPH (Gas) (mg/Kg)	TPH (Diesel) (mg/Kg)	TRPH (mg/Kg)	Extractable Petroleum Hydrocarbon Finger Print				Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total Lead (mg/Kg)	Lab
						TPH (Total) (mg/Kg)	C8-C12 (Gasoline) (mg/Kg)	C13-C23 (Diesel) (mg/Kg)	C24-C40 (Motor Oil) (mg/Kg)						
EPA Method			8015m	8015m	418.1										
Method Reporting Limit (MRL)			0.1	10	10	10	10	10	10	0.005	0.005	0.005	0.015	5	
TANK 5A	3/8/95	14.5'	--	--	35,000	9,800	660	6,100	3,000	ND	1.5	ND	5.4	--	STS
TANK 5B	3/8/95	13.5'	--	--	26,000	8,100	590	4,800	2,700	ND	ND	ND	0.34	--	STS
TANK 6A	3/8/95	13.5'	--	--	19,000	7,600	580	4,600	2,500	1.1	8.0	4.2	21	--	STS
TANK 7	3/22/95	8.5'	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	STS
TANK 8	3/22/95	14'	--	--	16,000	4,360	750	2,010	1,600	1.2	15	8.0	37.5	--	STS
8A	3/22/95	8.5'	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	STS
8B	3/22/95	8.5'	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	STS
SP-1	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-2	3/8/95	--	*14(10)	**40	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-3	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-4	3/8/95	--	ND(10)	**76	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	17	CAS
SP-5	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-6	3/8/95	--	ND(10)	**54	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-7	3/8/95	--	ND(10)	**53	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-8	3/8/95	--	ND(10)	**28	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-9	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-10	3/8/95	--	ND(10)	**56	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-11	3/8/95	--	ND(10)	**18	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-12	3/8/95	--	ND(10)	**40	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-13	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-14	3/8/95	--	ND(10)	**47	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-15	3/8/95	--	ND(10)	**28	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-16	3/8/95	--	ND(10)	**50	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-17	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-18	3/8/95	--	ND(10)	**35	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS
SP-19	3/8/95	--	ND(10)	ND	--	--	--	--	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	--	CAS

Notes:

ND = Not detected at or above the method reporting limit. Method reporting limit is reported above unless specified in parenthesis.

-- = Not analyzed

* = Result indicates hydrocarbons detected in the time range of C4-C12.

** = Result indicates hydrocarbons detected in the time range of C12-C24.

*** = Samples were analyzed for EPA Methods 5030/8015m.

STS = Southland Technical Services, Inc

CAS = Columbia Analytical Services, Inc.

TPH = Total Petroleum Hydrocarbons

TRPH = Total Recoverable Petroleum Hydrocarbons

QA/QC: _____

TABLE 2
Summary of Soil Analytical Results - Soil Borings
 Former Jergens Facility
 99 W. Verdugo Avenue, Burbank, California

Boring I.D.	Sample Date	Sample Depth (ft.)	U.S. EPA Method 8015M TPH-FC ⁽¹⁾ (mg/Kg)	U.S. EPA Method 8020				EPA Method 8260	EPA Method 3550/8270	EPA Method 9045	EPA Method 9060/7196A
				Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	Volatile Organic Compounds (mg/Kg)	Semi-VOC's (mg/Kg)	Hexavalent Chromium	pH
Method Detection Limit (MDL)			10	0.0005	0.0005	0.0005	0.002	**	**	2	NA
EB-1	2/24/95	1'	--	NA	NA	NA	NA	NA	NA	NA	NA
	2/24/95	5'	--	NA	NA	NA	NA	NA	NA	NA	NA
	2/24/95	10'	--	NA	NA	NA	NA	NA	NA	NA	NA
	2/24/95	15'	--	NA	NA	NA	NA	NA	NA	NA	NA
B-1	4/28/95	5'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	10'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	15'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	20'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	25'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	30'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	35'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	40'	--	--	--	--	--	NA	NA	NA	NA
B-2	4/28/95	5'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	10'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	15'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	20'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	25'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	30'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	35'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	40'	--	--	--	--	--	NA	NA	NA	NA
B-3	4/28/95	5'	--	--	--	0.0041	0.033	NA	NA	NA	NA
	4/28/95	10'	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/28/95	15'	--	--	--	0.0028	0.027	NA	NA	NA	NA
	4/28/95	20'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	25'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	30'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	35'	--	--	--	--	--	NA	NA	NA	NA
	4/28/95	40'	--	--	--	--	--	NA	NA	NA	NA

TABLE 2 (continued)
Summary of Soil Analytical Results - Soil Borings
 Former Jergens Facility
 99 W. Verdugo Avenue, Burbank, California

Boring I.D.	Sample Date	Sample Depth (ft.)	U.S. EPA Method 8015M TPH-FC ⁽¹⁾ (mg/Kg)	U.S. EPA Method 8020				EPA Method 8260	EPA Method 3550/8270	EPA Method 9045	EPA Method 9060/7196A
				Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Total Xylenes (mg/Kg)	Volatile Organic Compounds (mg/Kg)	Semi-VOC's (mg/Kg)	Hexavalent Chromium	pH
			10								
Method Detection Limit (MDL)			10	0.0005	0.0005	0.0005	0.002	**	**	2	NA
Clarifier B-4	4/28/95	5'	3,000*	NA	NA	NA	NA	3.7(tr) Trichlorofluoromethane	--	--	10.2
		10'	1,800*	NA	NA	NA	NA	4.3(tr) Xylenes, 50 Acetone 46(tr) Acetone	--	--	8.6
Sump B-5	4/28/95	5'	--	NA	NA	NA	NA	--	--	--	7.8
	4/28/95	10'	--	NA	NA	NA	NA	--	--	--	7.2
	4/28/95	15'	--	NA	NA	NA	NA	--	--	--	8.5
B-6	12/1/95	5'	66	--	--	0.013	0.029	NA	NA	NA	NA
	12/1/95	10'	6,200	--	--	0.033	0.043	NA	NA	NA	NA
	12/1/95	15'	10,000	--	--	0.02	0.028	NA	NA	NA	NA
	12/1/95	20'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	25'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	30'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	35'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	40'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	45'	--	--	--	--	--	NA	NA	NA	NA
B-7	12/1/95	50'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	5'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	10'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	15'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	20'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	25'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	30'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	35'	--	--	--	--	--	NA	NA	NA	NA
	12/1/95	40'	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/1/95	45'	--	--	--	--	--	NA	NA	NA	NA	
12/1/95	50'	--	--	--	--	--	NA	NA	NA	NA	

TABLE 2 (continued)
Summary of Soil Analytical Results - Soil Borings
Former Jergens Facility
99 W. Verdugo Avenue, Burbank, California

Notes:

Analyzed by Golden State/CAS Laboratories, Inc., Canoga Park, California

-- = Not detected at or above the method detection limit shown above.

NA = Not analyzed.

NS = Not sampled.

* = Hydrocarbon Range = C8->C30. The chromatogram indicates the presence of a hydrocarbon fill mixture eluting within the diesel and motor-oil range.

** = Various Method Detection Limits are reported. See Certified Analytical Results.

(tr) = Trace Level

(1) Hydrocarbon Scan/Fuel Characterization represents a hydrocarbon scan C₄ thru C₃₀ hydrocarbons.

(2) Base Neutral/Acid Semivolatile Organic Compounds analyzed using EPA Methods 3550/8270.

Summary of Soil Analytical Results
Volatile Organic Compounds
The Andrew Jergens Facility
99 West Verdugo, Burbank, California

[illegible]

Notes:

ND = Not detected at or above the method report limit shown above.

* = Method detection limit shown on secondary scale.

-- = Not analyzed

TABLE 4
Summary of Soil Analytical Results
Metals
The Andrew Jergens Facility
99 West Verdugo, Burbank, California

Sample ID	Sample Date	Depth	CAM Metals																	Lab
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
EPA Method			7040	7060	7080	7090	7130	7190	7200	7210	7420	7470	7480	7520	7740	7760	7840	7910	7950	
Method Reporting Limit (MRL)			10	0.05	5.0	2.5	2.5	2.5	2.5	2.5	2.5	0.01	5.0	2.5	0.05	2.5	2.5	10	2.5	Lab
TANK5A	3/8/95	14.5	45	ND	600	ND	ND	18	32	32	11	0.02	ND	17	ND	ND	5.4	40	39	STS
TANK5B	3/8/95	13.5	37	ND	660	ND	ND	16	29	29	10	0.01	ND	14	ND	ND	4.6	27	32	STS
TANK6A	3/8/95	13.5	40	ND	930	ND	ND	23	35	32	12	0.02	ND	15	ND	ND	3.9	34	33	STS
TANK 7	3/22/95	8.5	5.0	ND	610	ND	ND	10.4	9.5	13.8	8.5	ND	ND	18.5	ND	ND	5.5	29.5	43	STS
TANK 8	3/22/95	14	5.8	ND	620	ND	ND	10.5	10.8	23.7	10.7	0.02	ND	21.2	ND	ND	6.5	21.6	11	STS
8A	3/22/95	8.5	5.3	ND	470	ND	ND	10	8.8	20	8.4	ND	ND	16.8	ND	ND	3.7	22.2	8.2	STS
8B	3/22/95	8.5	5.5	ND	500	ND	ND	11	8.3	28	8.2	ND	ND	18.4	ND	ND	5.4	32.2	40	STS

ND = Not detected at or above the method reporting limit shown above.

FIGURES



emcon

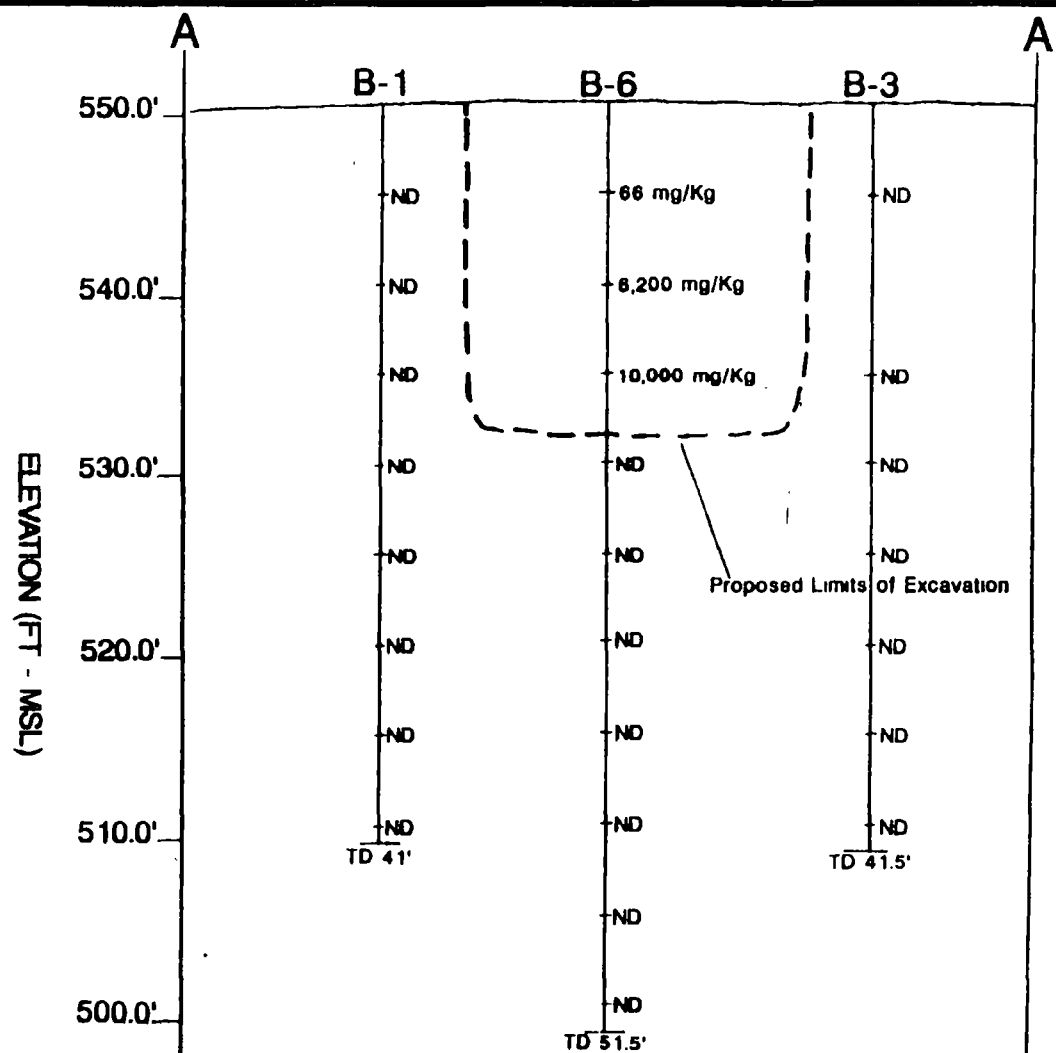
FORMER JERGENS FACILITY
99 WEST VERDUGO
BURBANK, CALIFORNIA

SITE LOCATION MAP

FIGURE

1

PROJECT NO.
2349-600.01

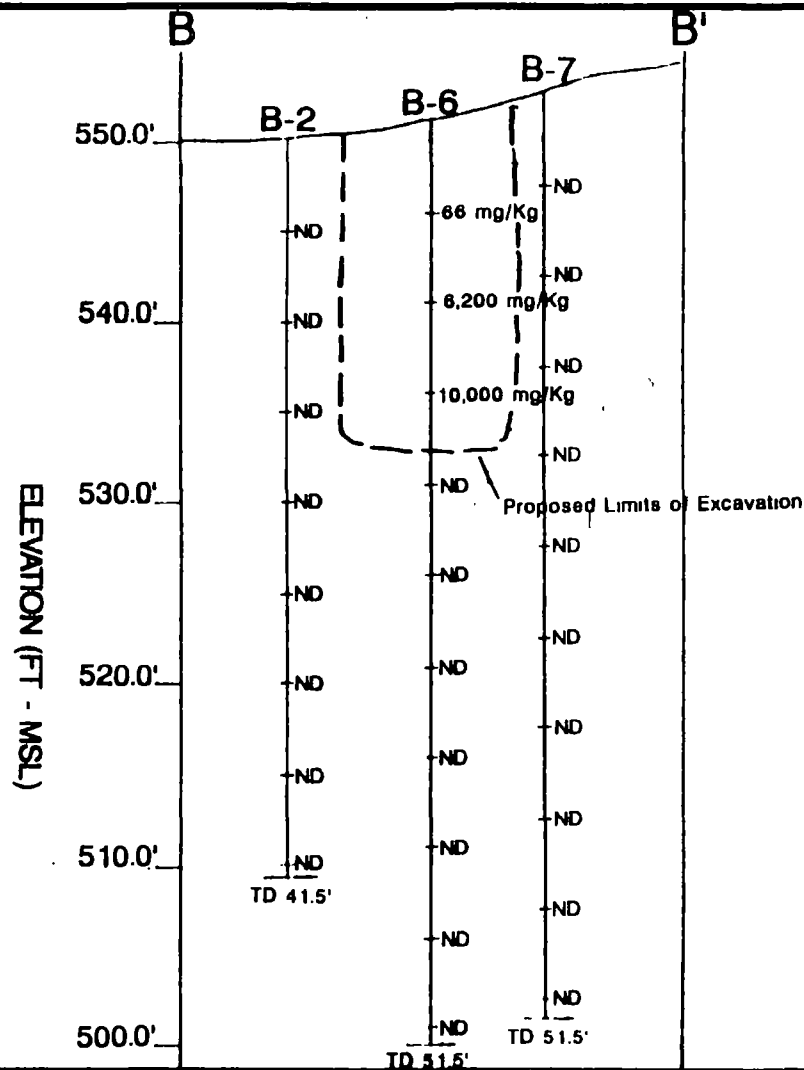


EMCON
Associates

Former Andrew Jergens Facility
99 West Verdugo Avenue
Burbank, California

CROSS SECTION A-A'

FIGURE
2
PROJECT NO.



emcon
Associates

Former Andrew Jergens Facility
99 West Verdugo Avenue
Burbank, California

CROSS SECTION B-B'

FIGURE

3

PROJECT NO.

DRAWING

CITY OF BUREAU COUNTY OF LOS ANGELES, CALIFORNIA
SITE EXHIBIT
 SHOWING THE LOCATION OF PROPOSED DEVELOPMENT AND ADJACENT
 TO THE BUREAU COUNTY FORTY-SEVEN (47) ACRES
 IN THE CITY OF BUREAU COUNTY OF LOS ANGELES, CALIFORNIA
 COUNTY OF BUREAU COUNTY OF LOS ANGELES, CALIFORNIA

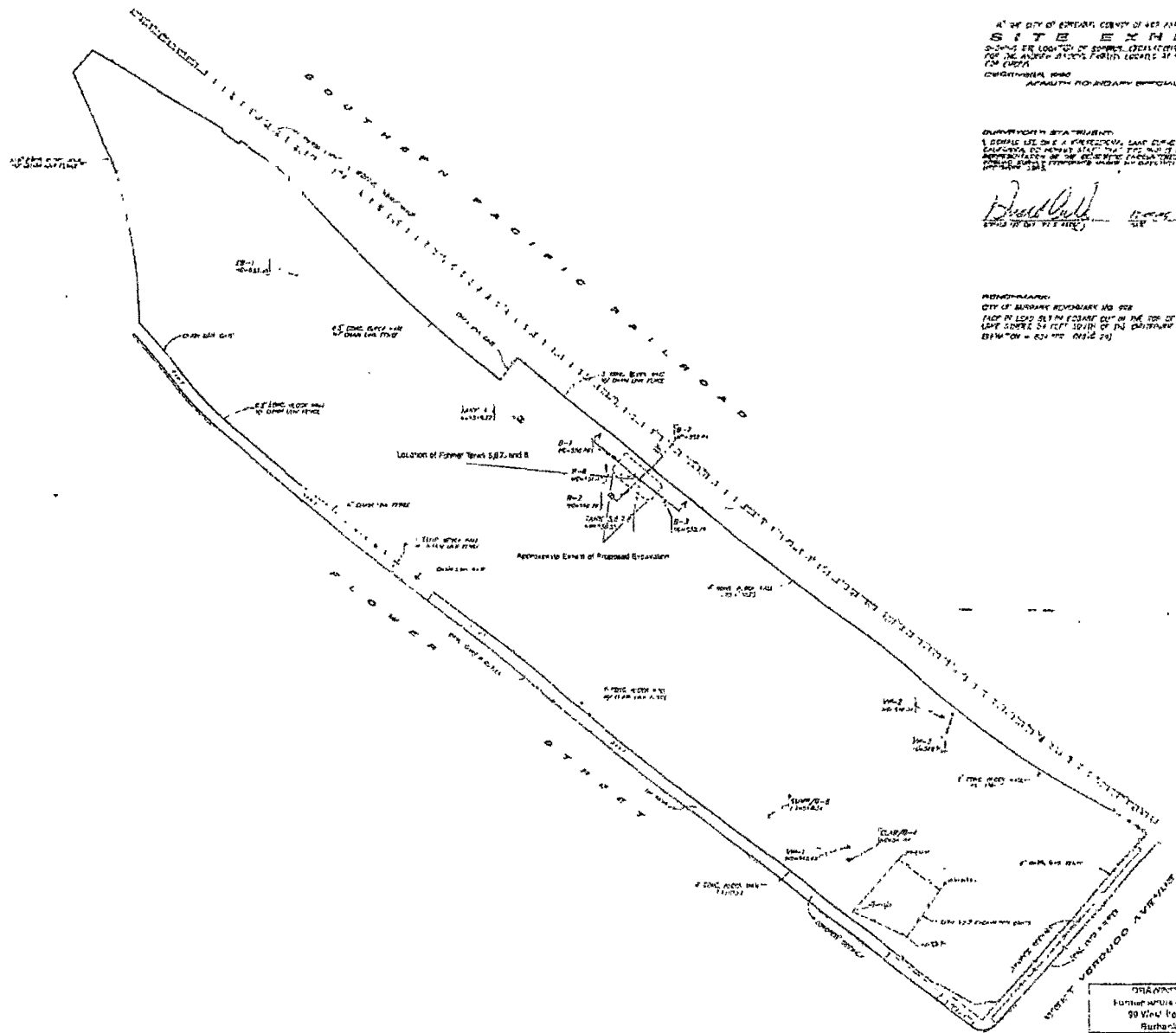
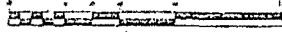
BUREAU COUNTY EXHIBIT
 CITY OF BUREAU COUNTY OF LOS ANGELES, CALIFORNIA
 SHOWING THE LOCATION OF PROPOSED DEVELOPMENT AND ADJACENT
 TO THE BUREAU COUNTY FORTY-SEVEN (47) ACRES
 IN THE CITY OF BUREAU COUNTY OF LOS ANGELES, CALIFORNIA

BUREAU COUNTY EXHIBIT
 CITY OF BUREAU COUNTY OF LOS ANGELES, CALIFORNIA
 SHOWING THE LOCATION OF PROPOSED DEVELOPMENT AND ADJACENT
 TO THE BUREAU COUNTY FORTY-SEVEN (47) ACRES
 IN THE CITY OF BUREAU COUNTY OF LOS ANGELES, CALIFORNIA

BUREAU COUNTY EXHIBIT
 CITY OF BUREAU COUNTY OF LOS ANGELES, CALIFORNIA
 SHOWING THE LOCATION OF PROPOSED DEVELOPMENT AND ADJACENT
 TO THE BUREAU COUNTY FORTY-SEVEN (47) ACRES
 IN THE CITY OF BUREAU COUNTY OF LOS ANGELES, CALIFORNIA

100' = 1" (1" = 100')
 100' = 1" (1" = 100')
 100' = 1" (1" = 100')

GRAPHIC SCALE



BUREAU COUNTY EXHIBIT
 CITY OF BUREAU COUNTY OF LOS ANGELES, CALIFORNIA
 SHOWING THE LOCATION OF PROPOSED DEVELOPMENT AND ADJACENT
 TO THE BUREAU COUNTY FORTY-SEVEN (47) ACRES
 IN THE CITY OF BUREAU COUNTY OF LOS ANGELES, CALIFORNIA

ATTACHMENT 1
DRILLING AND SAMPLING PROCEDURES

ATTACHMENT 1

DRILLING AND SAMPLING PROCEDURES

Exploratory soil borings B-1 through B-3, B-6, and B-7 were drilled in February, April, and December 1995, using drill rigs equipped with continuous-flight, hollow-stem auger drilling equipment. The auger flights were steam-cleaned prior to drilling each boring. Each borehole was initially hand-augered to an approximate depth of 5 feet below grade to minimize the potential of encountering buried pipelines, electrical lines, and other subsurface obstructions.

Undisturbed soil samples were collected at 5-foot-depth intervals using a 2.5-inch outside diameter, modified California split-spoon sampler equipped with brass liners. The sampler was driven 18 inches into the soil ahead of the lead auger using a 140-pound slide hammer with a 30 inch drop. The middle sample sleeve was retained and sealed with Teflon tape and plastic end caps. The samples were placed in a chilled insulated container and delivered to Golden State/CAS, a state certified analytical laboratory along with appropriate chain-of-custody documentation. A detailed log of each boring was recorded by a EMCON geologist from the soil samples and auger return material using the Unified Soil Classification System (ASTM D1586). Upon completion of sampling, the borings were backfilled to the ground surface with bentonite chips hydrated in 3 foot lifts. The exploratory boring logs are included in Appendix 4.

Soil samples were field screened for volatile organic compounds (VOCs) by headspace analysis using a photoionization detector (PID) calibrated to 100 parts per million by volume (ppmv) isobutylene gas. For each sample interval, approximately 200 grams of soil was placed in a sealable plastic bag. After the soil was allowed to equilibrate for approximately 20 minutes, the probe tip of the PID was inserted into the bag. The highest measured concentrations of volatile organic vapors within the bag was recorded for each sample interval on the boring log.

Soil cuttings and auger rinseate generated during drilling activities were contained in DOT-approved 55-gallon steel drums pending characterization and disposal. A copy of the waste disposal manifests will be included in the final report.

ATTACHMENT 2

**BORINGS B-1 THROUGH B-3 ANALYTICAL RESULTS
AND CHAIN-OF-CUSTODY DOCUMENTATION**



May 11, 1995

Sally Bilodeau
EMCON Associates
3300 North San Fernando Blvd.
Burbank, CA 91504

Re: **Andrew Jergens Co., 99 W. Verdugo Ave., Burbank**

Dear Sally:

Enclosed are the results of the samples submitted to our lab on May 1, 1995. For your reference, these analyses have been assigned our service request number L952192.

All analyses were performed in accordance with our laboratory's quality assurance program. Golden State / CAS is certified for environmental analyses by the California Department of Health Services (Certificate # 1296/Expiration - August 1996).

Please call if you have any questions.

Respectfully submitted,

Golden State/CAS Laboratories, Inc.

Eydie Schwartz for

Elaine R. Thomas
Project Chemist

ET/sjt

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

LABORATORY REPORT FORM FOR PETROLEUM HYDROCARBONS

Laboratory Name: Golden State / CAS Laboratories, Inc.
Address: 6925 Canoga Avenue, Canoga Park, CA 91303
Telephone: (818) 587-5550
Laboratory Certification (ELAP) No.: 1296
Expiration Date: August 1996
Laboratory Director's Name: Dr. B. Gene Bennett
Laboratory Director's Signature: Eydie Schwartz for Dr. B. Gene Bennett
Client: EMCON Associates
Project No.: Andrew Jergens Co., 99 W. Verdugo Ave., Burbank
Analytical Method: EPA Method 8020
Date Sampled: 4/28/95
Date Received: 5/1/95
Date Reported: 5/9/95
Sample Matrix: Soil
Chain of Custody Received: Yes
Sample Condition:
--Sample Headspace Description (%): 0% Headspace
--Sample Container Material: Brass Tube

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

LABORATORY REPORT FORM FOR PETROLEUM HYDROCARBONS

Laboratory Name: Golden State / CAS Laboratories, Inc.
Address: 6925 Canoga Avenue, Canoga Park, CA 91303
Telephone: (818) 587-5550
Laboratory Certification (ELAP) No.: 1296
Expiration Date: August 1996
Laboratory Director's Name: Dr. B. Gene Bennett
Laboratory Director's Signature: *Eydie Schwartz for Dr. B. Gene Bennett*
Client: California Environmental
Project No.: Andrew Jergens Co., 99 W. Verdugo Ave., Burbank
Analytical Method: EPA Method 8260
Date Sampled: 4/28/95
Date Received: 5/1/95
Date Reported: 5/9/95
Sample Matrix: Soil
Chain of Custody Received: Yes
Sample Condition:
--Sample Headspace Description (%): 0% Headspace
--Sample Container Material: Brass Tube

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED			5/1/95	5/1/95	5/1/95	5/1/95
DILUTION FACTOR			1	1	1	1
LAB SAMPLE I.D.			L952192-002	L952192-003	L952192-004	L952192-005
CLIENT SAMPLE I.D.			B-1,10'	B-1,15'	B-1,20'	B-1,25'
BTEX (EPA 8020)	MDL					
Benzene	0.0005		ND	ND	ND	ND
Toluene	0.0005		ND	ND	ND	ND
Ethylbenzene	0.0005		ND	ND	ND	ND
Total Xylenes	0.002		ND	ND	ND	ND
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	87	87	91	90

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: Eydie Schwartz Date: 5/11/95

WBPHB/062794

L952192.XLS - wb8020w (2) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED		5/1/95	5/1/95	5/1/95	5/1/95
DILUTION FACTOR		1	1	1	1
LAB SAMPLE I.D.		L952192-006	L952192-007	L952192-008	L952192-009
CLIENT SAMPLE I.D.		B-1,30'	B-1,35'	B-1,40'	B-2,5'
BTEX (EPA 8020)	MDL	—			
Benzene	0.0005	ND	ND	ND	ND
Toluene	0.0005	ND	ND	ND	ND
Ethylbenzene	0.0005	ND	ND	ND	ND
Total Xylenes	0.002	ND	ND	ND	ND
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	84	88	86

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: Eydie Schwartz

Date: 5/11/95

WBPHB/062794

L952192.XLS - wb8020w (3) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED			5/1/95	5/2/95	5/2/95	5/2/95
DILUTION FACTOR			1	1	1	1
LAB SAMPLE I.D.			L952192-010	L952192-011	L952192-012	L952192-013
CLIENT SAMPLE I.D.			B-2,10'	B-2,15'	B-2,20'	B-2,25'
BTEX (EPA 8020)	MDL					
Benzene	0.0005		ND	ND	ND	ND
Toluene	0.0005		ND	ND	ND	ND
Ethylbenzene	0.0005		ND	ND	ND	ND
Total Xylenes	0.002		ND	ND	ND	ND
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	79	94	89	89

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: Eydie Schwartz Date: 5/11/95

WBPHB/062794

L952192.XLS - wb8020w (4) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED			5/1/95	5/2/95	5/3/95	5/1/95
DILUTION FACTOR			1	1	1	1
LAB SAMPLE I.D.			L952192-MB	L952192-MB	L952192-MB	L952192-001
CLIENT SAMPLE I.D.			Method Blank	Method Blank	Method Blank	B-1.5'
BTEX (EPA 8020)	MDL					
Benzene	0.0005		ND	ND	ND	ND
Toluene	0.0005		ND	ND	ND	ND
Ethylbenzene	0.0005		ND	ND	ND	ND
Total Xylenes	0.002		ND	ND	ND	ND
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	107	107	106	78

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: Eydie SchwartzDate: 5/11/95

WBPHB/062794

L952192.XLS - wb8020w 5/12/95

Page No.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Hydrocarbon Scan/Fuel Characterization¹
EPA Method Modified 8015/California DHS LUFT Method
Units: mg/Kg (ppm)

Sample Name	Lab Code	Date Analyzed	MRL	Result	Fuel Characterization	Hydrocarbon Range
B-3,15'	L952192-018	5/6/95	10	ND	None	NA
B-3,20'	L952192-019	5/6/95	10	ND	None	NA
B-3,25'	L952192-020	5/6/95	10	ND	None	NA
B-3,30'	L952192-021	5/6/95	10	ND	None	NA
B-3,35'	L952192-022	5/6/95	10	ND	None	NA
B-3,40'	L952192-023	5/6/95	10	ND	None	NA
B-4,5'	L952192-024	5/8/95	10	3000	*	C8 - > C30
B-4,10'	L952192-025	5/8/95	10	1800	*	C8 - > C30
B-5,5'	L952192-026	5/8/95	10	ND	None	NA
B-5,10'	L952192-027	5/6/95	10	ND	None	NA
B-5,15'	L952192-028	5/6/95	10	ND	None	NA
Method Blank	L952192-MB	5/5/95	10	ND	None	NA
Method Blank	L952192-MB	5/5/95	10	ND	None	NA

¹ Hydrocarbon Scan/Fuel Characterization represents a hydrocarbon scan C₄ thru C₃₀ hydrocarbons.
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit
NA Not Applicable
* The chromatogram indicates the presence of a hydrocarbon fill mixture eluting within the diesel and motor-oil range.

Approved By:



Date:

5/11/95

HScanFC/091484

L952192.XLS - 8015fc (2) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3550/8270
Units: mg/Kg (ppm)

Sample Name:	B-4,5'	B-4,10'	B-5,5'
Lab Code:	L952192-024	L952192-025	L952192-026
Date Analyzed:	5/3/95	5/3/95	5/3/95

Base Neutral Analyte	MRL			
N-Nitrosodimethylamine	0.3	ND	ND	ND
Aniline	0.3	ND	ND	ND
Bis(2-chloroethyl) Ether	0.3	ND	ND	ND
1,2-Dichlorobenzene	0.3	ND	ND	ND
1,3-Dichlorobenzene	0.3	ND	ND	ND
1,4-Dichlorobenzene	0.3	ND	ND	ND
Bis(2-chloroisopropyl) Ether	0.3	ND	ND	ND
N-Nitrosodi-n-propylamine	0.3	ND	ND	ND
Hexachloroethane	0.3	ND	ND	ND
Nitrobenzene	0.3	ND	ND	ND
Isophorone	0.3	ND	ND	ND
Bis(2-chloroethoxy)methane	0.3	ND	ND	ND
1,2,4-Trichlorobenzene	0.3	ND	ND	ND
Naphthalene	0.3	ND	ND	ND
4-Chloroaniline	0.3	ND	ND	ND
Hexachlorobutadiene	0.3	ND	ND	ND
2-Methylnaphthalene	0.3	ND	ND	ND
Hexachlorocyclopentadiene	0.3	ND	ND	ND
2-Chloronaphthalene	0.3	ND	ND	ND
2-Nitroaniline	2	ND	ND	ND
Dimethyl Phthalate	0.3	ND	ND	ND
Acenaphthylene	0.3	ND	ND	ND
3-Nitroaniline	2	ND	ND	ND
Acenaphthene	0.3	ND	ND	ND
Dibenzofuran	0.3	ND	ND	ND
2,4-Dinitrotoluene	0.3	ND	ND	ND

MRL Method Reporting Limit.
ND None Detected at or above the method reporting limit.

Approved By: Eydie Schwartz Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3550/8270
Units: mg/Kg (ppm)

Sample Name:	B-4,5'	B-4,10'	B-5,5'
Lab Code:	L952192-024	L952192-025	L952192-026
Date Analyzed:	5/3/95	5/3/95	5/3/95

Base Neutral Analyte	MRL			
2,6-Dinitrotoluene	0.3	ND	ND	ND
Diethyl Phthalate	0.3	ND	ND	ND
4-Chlorophenyl Phenyl Ether	0.3	ND	ND	ND
Fluorene	0.3	ND	ND	ND
4-Nitroaniline	2	ND	ND	ND
N-Nitrosodiphenylamine	0.3	ND	ND	ND
4-Bromophenyl Phenyl Ether	0.3	ND	ND	ND
Hexachlorobenzene	0.3	ND	ND	ND
Phenanthrene	0.3	ND	ND	ND
Anthracene	0.3	ND	ND	ND
Di-n-butyl Phthalate	0.3	ND	ND	ND
Fluoranthene	0.3	ND	ND	ND
Pyrene	0.3	ND	ND	ND
Butylbenzyl Phthalate	0.3	ND	ND	ND
3,3'-Dichlorobenzidine	0.3	ND	ND	ND
Benz(a)anthracene	0.3	ND	ND	ND
Bis(2-ethylhexyl) Phthalate	0.3	ND	ND	ND
Chrysene	0.3	ND	ND	ND
Di-n-octyl Phthalate	0.3	ND	ND	ND
Benzo(b)fluoranthene	0.3	ND	ND	ND
Benzo(k)fluoranthene	0.3	ND	ND	ND
Benzo(a)pyrene	0.3	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.3	ND	ND	ND
Dibenz(a,h)anthracene	0.3	ND	ND	ND
Benzo(g,h,i)perylene	0.3	ND	ND	ND
Pyridine	0.6	ND	ND	ND

MRL Method Reporting Limit.
ND None Detected at or above the method reporting limit.

Approved By: Eydie Schwartz Date: 5/11/95

L952192.XLS - 8270s 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

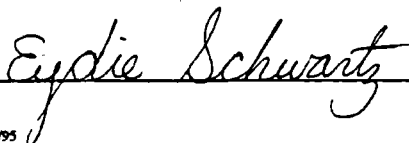
Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3550/8270
Units: mg/Kg (ppm)

Sample Name:	B-4,5'	B-4,10'	B-5,5'
Lab Code:	L952192-024	L952192-025	L952192-026
Date Analyzed:	5/3/95	5/3/95	5/3/95

Acid Analyte	MRL			
Phenol	0.3	ND	ND	ND
2-Chlorophenol	0.3	ND	ND	ND
Benzyl Alcohol	0.3	ND	ND	ND
2-Methylphenol	0.3	ND	ND	ND
3- and 4-Methylphenol ^a	0.3	ND	ND	ND
2-Nitrophenol	0.3	ND	ND	ND
2,4-Dimethylphenol	0.3	ND	ND	ND
Benzoic Acid	2	ND	ND	ND
2,4-Dichlorophenol	0.3	ND	ND	ND
4-Chloro-3-methylphenol	0.3	ND	ND	ND
2,4,6-Trichlorophenol	0.3	ND	ND	ND
2,4,5-Trichlorophenol	0.3	ND	ND	ND
2,4-Dinitrophenol	2	ND	ND	ND
4-Nitrophenol	2	ND	ND	ND
2-Methyl-4,6-dinitrophenol	2	ND	ND	ND
Pentachlorophenol	2	ND	ND	ND

MRL Method Reporting Limit.
ND None Detected at or above the method reporting limit.
^a Quantified as 4-Methylphenol.

Approved By:



Date: 5/11/95

353PBNA/060794

L952192.XLS - 8270s 5/12/95

Page No.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3550/8270
Units: mg/Kg (ppm)

Sample Name:	B-5,10'	B-5,15'	Method Blank
Lab Code:	L952192-027	L952192-028	L952192-MB
Date Analyzed:	5/3/95	5/3/95	5/3/95

Base Neutral Analyte	MRL			
N-Nitrosodimethylamine	0.3	ND	ND	ND
Aniline	0.3	ND	ND	ND
Bis(2-chloroethyl) Ether	0.3	ND	ND	ND
1,2-Dichlorobenzene	0.3	ND	ND	ND
1,3-Dichlorobenzene	0.3	ND	ND	ND
1,4-Dichlorobenzene	0.3	ND	ND	ND
Bis(2-chloroisopropyl) Ether	0.3	ND	ND	ND
N-Nitrosodi-n-propylamine	0.3	ND	ND	ND
Hexachloroethane	0.3	ND	ND	ND
Nitrobenzene	0.3	ND	ND	ND
Isophorone	0.3	ND	ND	ND
Bis(2-chloroethoxy)methane	0.3	ND	ND	ND
1,2,4-Trichlorobenzene	0.3	ND	ND	ND
Naphthalene	0.3	ND	ND	ND
4-Chloroaniline	0.3	ND	ND	ND
Hexachlorobutadiene	0.3	ND	ND	ND
2-Methylnaphthalene	0.3	ND	ND	ND
Hexachlorocyclopentadiene	0.3	ND	ND	ND
2-Chloronaphthalene	0.3	ND	ND	ND
2-Nitroaniline	2	ND	ND	ND
Dimethyl Phthalate	0.3	ND	ND	ND
Acenaphthylene	0.3	ND	ND	ND
3-Nitroaniline	2	ND	ND	ND
Acenaphthene	0.3	ND	ND	ND
Dibenzofuran	0.3	ND	ND	ND
2,4-Dinitrotoluene	0.3	ND	ND	ND

MRL Method Reporting Limit.
ND None Detected at or above the method reporting limit.

Approved By: Eydie SchwartzDate: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Base Neutral/Acid Semivolatile Organic Compounds
 EPA Methods 3550/8270
 Units: mg/Kg (ppm)

Sample Name:	B-5,10'	B-5,15'	Method Blank
Lab Code:	L952192-027	L952192-028	L952192-MB
Date Analyzed:	5/3/95	5/3/95	5/3/95

Base Neutral Analyte	MRL			
2,6-Dinitrotoluene	0.3	ND	ND	ND
Diethyl Phthalate	0.3	ND	ND	ND
4-Chlorophenyl Phenyl Ether	0.3	ND	ND	ND
Fluorene	0.3	ND	ND	ND
4-Nitroaniline	2	ND	ND	ND
N-Nitrosodiphenylamine	0.3	ND	ND	ND
4-Bromophenyl Phenyl Ether	0.3	ND	ND	ND
Hexachlorobenzene	0.3	ND	ND	ND
Phenanthrene	0.3	ND	ND	ND
Anthracene	0.3	ND	ND	ND
Di-n-butyl Phthalate	0.3	ND	ND	ND
Fluoranthene	0.3	ND	ND	ND
Pyrene	0.3	ND	ND	ND
Butylbenzyl Phthalate	0.3	ND	ND	ND
3,3'-Dichlorobenzidine	0.3	ND	ND	ND
Benz(a)anthracene	0.3	ND	ND	ND
Bis(2-ethylhexyl) Phthalate	0.3	ND	ND	ND
Chrysene	0.3	ND	ND	ND
Di-n-octyl Phthalate	0.3	ND	ND	ND
Benzo(b)fluoranthene	0.3	ND	ND	ND
Benzo(k)fluoranthene	0.3	ND	ND	ND
Benzo(a)pyrene	0.3	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.3	ND	ND	ND
Dibenz(a,b)anthracene	0.3	ND	ND	ND
Benzo(g,h,i)perylene	0.3	ND	ND	ND
Pyridine	0.6	ND	ND	ND

MRL Method Reporting Limit.
ND None Detected at or above the method reporting limit.

Approved By: Eydie Schwartz Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Bur
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Base Neutral/Acid Semivolatile Organic Compounds
 EPA Methods 3550/8270
 Units: mg/Kg (ppm)

Acid Analyte	MRL	Sample Name:	B-5,10'	B-5,15'	Method Blank
		Lab Code:	L952192-027	L952192-028	L952192-MB
		Date Analyzed:	5/3/95	5/3/95	5/3/95
Phenol	0.3		ND	ND	ND
2-Chlorophenol	0.3		ND	ND	ND
Benzyl Alcohol	0.3		ND	ND	ND
2-Methylphenol	0.3		ND	ND	ND
3- and 4-Methylphenol ^a	0.3		ND	ND	ND
2-Nitrophenol	0.3		ND	ND	ND
2,4-Dimethylphenol	0.3		ND	ND	ND
Benzoic Acid	2		ND	ND	ND
2,4-Dichlorophenol	0.3		ND	ND	ND
4-Chloro-3-methylphenol	0.3		ND	ND	ND
2,4,6-Trichlorophenol	0.3		ND	ND	ND
2,4,5-Trichlorophenol	0.3		ND	ND	ND
2,4-Dinitrophenol	2		ND	ND	ND
4-Nitrophenol	2		ND	ND	ND
2-Methyl-4,6-dinitrophenol	2		ND	ND	ND
Pentachlorophenol	2		ND	ND	ND

MRL Method Reporting Limit.
ND None Detected at or above the method reporting limit.
^a Quantified as 4-Methylphenol.

Approved By: Eydie Schwartz Date: 5/11/95
 353PBNA/060794
 L952192.XLS - 8270s (2) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: NA

Inorganic Parameters
Units: mg/Kg (ppm)

Sample Name:	B-4,5'	B-4,10'	B-5,5'
Lab Code:	L952192-024	L952192-025	L952192-026
Date Analyzed:	5/5-10/95	5/5-10/95	5/5-10/95

Analyte	EPA Method	MRL			
pH (units)	9045	-	10.2	8.6	7.8
Hexavalent Chromium	3060/7196A	2	ND	ND	ND

MRL Method Reporting Limit
ND None Detected at or above the method reporting limit.
NA Not Applicable

Approved By:

Eydie Schwartz

Date: 5/11/95

3522EPA/060194
L952192.XLS - generated 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: NA

Inorganic Parameters
Units: mg/Kg (ppm)

Sample Name:	B-5,10'	B-5,15'	Method Blank
Lab Code:	L952192-027	L952192-028	L952192-MB
Date Analyzed:	5/5-10/95	5/5-10/95	5/5-10/95

Analyte	EPA Method	MRL			
pH (units)	9045	-	7.2	8.5	NA
Hexavalent Chromium	3060/7196A	2	ND	ND	ND

MRL Method Reporting Limit
ND None Detected at or above the method reporting limit.
NA Not Applicable

Approved By: Eydie Schwartz Date: 5/11/95
3522EPA/060194
L952192.XLS - genumx (2) 5/12/95

Page No.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

Service Request: L952192
 Date Collected: 4/28/95
 Date Received: 5/1/95
 Date Extracted: NA

Volatile Organic Compounds
 EPA Method 8260
 Units: µg/L (ppb)

Analyte	MDL	Sample Name: Lab Code: *Date Analyzed: Dilution Factor:	Method Blank L952192-MB 5/4/95 1	B-4,5' L952192-024 5/4/95 1	B-4,10' L952192-025 5/4/95 1
Bromobenzene	1.8		ND	ND	ND
Bromochloromethane	0.6		ND	ND	ND
Bromodichloromethane	1.0		ND	ND	ND
Bromoform	0.7		ND	ND	ND
Bromomethane	0.7		ND	ND	ND
Carbon tetrachloride	1.0		ND	ND	ND
Chloroethane	0.9		ND	ND	ND
Chloroform	0.9		ND	ND	ND
Chloromethane	0.9		ND	ND	ND
Dibromochloromethane	0.9		ND	ND	ND
Dibromomethane	1.2		ND	ND	ND
Dichloromethane (Methylene Chloride)	2.0		ND	ND	ND
Dichlorodifluoromethane	2.5		ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	0.8		ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	0.9		ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.9		ND	ND	ND
trans-1,2-Dichloroethylene	1.0		ND	ND	ND
cis-1,2-Dichloroethylene	0.4		ND	ND	ND
1,2-Dichloropropane	0.8		ND	ND	ND
cis-1,3-Dichloropropylene	0.8		ND	ND	ND
trans-1,3-Dichloropropylene	0.7		ND	ND	ND
1,1,1,2-Tetrachloroethane	1.2		ND	ND	ND
1,1,2,2-Tetrachloroethane	1.2		ND	ND	ND
Tetrachloroethylene(PCE)	1.0		ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0		ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	0.8		ND	ND	ND
Trichloroethylene (TCE)	0.6		ND	ND	ND
1,2,3-Trichloropropane	2.6		ND	ND	ND
Trichlorofluoromethane	0.9		ND	3.7 (tr)	ND
Vinyl Chloride (VC)	0.9		ND	ND	ND
Benzene	0.6		ND	ND	ND
Chlorobenzene	0.8		ND	ND	ND
1,2-Dichlorobenzene	0.7		ND	ND	ND
1,3-Dichlorobenzene	0.6		ND	ND	ND
1,4-Dichlorobenzene	0.7		ND	ND	ND

(tr) Trace level
 NA Not Applicable
 MDL Method Detection Limit
 ND None Detected at or above detection limit
 * Date Analyzed using purge and trap technology (EPA Method 5030)

Approved By: Eydie Schwartz Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

Service Request: L952192

Date Collected: 4/28/95

Date Received: 5/1/95

Date Extracted: NA

Volatile Organic Compounds

EPA Method 8260

Units: µg/L (ppb)

Sample Name:	Method Blank	B-4,5'	B-4,10'
Lab Code:	L952192-MB	L952192-024	L952192-025
*Date Analyzed:	5/4/95	5/4/95	5/4/95
Dilution Factor:	1	1	1

Analyte	MDL				
Ethyl benzene	0.9	ND	ND	ND	
Toluene	0.8	ND	ND	ND	
Total Xylenes	1.0	ND	4.3 (tr)	ND	
Acetone	10	ND	50	46 (tr)	
n-Butylbenzene	0.7	ND	ND	ND	
sec-Butylbenzene	0.8	ND	ND	ND	
tert-Butylbenzene	0.7	ND	ND	ND	
2-Chloroethylvinyl ether	5.0	ND	ND	ND	
2-Chlorotoluene	1.0	ND	ND	ND	
4-Chlorotoluene	2.4	ND	ND	ND	
1,3-Dichloropropane	1.0	ND	ND	ND	
2,2-Dichloropropane	1.1	ND	ND	ND	
1,1-Dichloropropylene	0.7	ND	ND	ND	
Ethylene dibromide (EDB)	1.0	ND	ND	ND	
Hexachlorobutadiene	0.9	ND	ND	ND	
Isopropylbenzene	1.0	ND	ND	ND	
p-Isopropyltoluene	0.6	ND	ND	ND	
Methyl Ethyl Ketone	7.5	ND	ND	ND	
Methyl Isobutyl Ketone	8.3	ND	ND	ND	
Naphthalene	1.4	ND	ND	ND	
n-Propylbenzene	1.0	ND	ND	ND	
Styrene	1.3	ND	ND	ND	
1,2,3-Trichlorobenzene	0.9	ND	ND	ND	
1,2,4-Trichlorobenzene	0.9	ND	ND	ND	
1,2,4-Trimethylbenzene	0.9	ND	ND	ND	
1,3,5-Trimethylbenzene	0.7	ND	ND	ND	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	ND	ND	ND	
1,2-Dibromo-3-chloropropane (DBCP)	0.9	ND	ND	ND	
Surrogate	SPK CONC	ACP%	%RC	%RC	%RC
Pentafluorobenzene	50	70-130	96	123	105
Toluene-D ₈	50	88-110	92	92	88
4-Bromofluorobenzene	50	86-115	96	92	96

NA Not Applicable

MDL Method Detection Limit

ND None Detected at or above detection limit

SPK CONC = Spike Concentration; ACP% = Acceptable Range of Percent; %RC = % Recovery

* Date Analyzed using purge and trap technology (EPA Method 5030)

(tr) Trace level

Approved By: Eydie Schwartz Date: 5/11/95WB352PDF/080294
L952192.XLS - wb8260w 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

Service Request: L952192
 Date Collected: 4/28/95
 Date Received: 5/1/95
 Date Extracted: NA

Volatile Organic Compounds
 EPA Method 8260
 Units: µg/L (ppb)

Analyte	MDL	Sample Name: Lab Code: *Date Analyzed: Dilution Factor:	B-5,5' L952192-026 5/4/95 1	B-5,10' L952192-027 5/4/95 1	B-5,15' L952192-028 5/4/95 1
Bromobenzene	1.8		ND	ND	ND
Bromochloromethane	0.6		ND	ND	ND
Bromodichloromethane	1.0		ND	ND	ND
Bromoform	0.7		ND	ND	ND
Bromomethane	0.7		ND	ND	ND
Carbon tetrachloride	1.0		ND	ND	ND
Chloroethane	0.9		ND	ND	ND
Chloroform	0.9		ND	ND	ND
Chloromethane	0.9		ND	ND	ND
Dibromochloromethane	0.9		ND	ND	ND
Dibromomethane	1.2		ND	ND	ND
Dichloromethane (Methylene Chloride)	2.0		ND	ND	ND
Dichlorodifluoromethane	2.5		ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	0.8		ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	0.9		ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.9		ND	ND	ND
trans-1,2-Dichloroethylene	1.0		ND	ND	ND
cis-1,2-Dichloroethylene	0.4		ND	ND	ND
1,2-Dichloropropane	0.8		ND	ND	ND
cis-1,3-Dichloropropylene	0.8		ND	ND	ND
trans-1,3-Dichloropropylene	0.7		ND	ND	ND
1,1,1,2-Tetrachloroethane	1.2		ND	ND	ND
1,1,2,2-Tetrachloroethane	1.2		ND	ND	ND
Tetrachloroethylene(PCE)	1.0		ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0		ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	0.8		ND	ND	ND
Trichloroethylene (TCE)	0.6		ND	ND	ND
1,2,3-Trichloropropane	2.6		ND	ND	ND
Trichlorofluoromethane	0.9		ND	ND	ND
Vinyl Chloride (VC)	0.9		ND	ND	ND
Benzene	0.6		ND	ND	ND
Chlorobenzene	0.8		ND	ND	ND
1,2-Dichlorobenzene	0.7		ND	ND	ND
1,3-Dichlorobenzene	0.6		ND	ND	ND
1,4-Dichlorobenzene	0.7		ND	ND	ND

(tr) Trace level
 NA Not Applicable
 MDL Method Detection Limit
 ND None Detected at or above detection limit
 * Date Analyzed using purge and trap technology (EPA Method 5030)

Approved By:

Eydie Schwartz

Date:

5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

Service Request: L952192
 Date Collected: 4/28/95
 Date Received: 5/1/95
 Date Extracted: NA

Volatile Organic Compounds
 EPA Method 8260
 Units: µg/L (ppb)

Sample Name:	B-5,5'	B-5,10'	B-5,15'
Lab Code:	L952192-026	L952192-027	L952192-028
*Date Analyzed:	5/4/95	5/4/95	5/4/95
Dilution Factor:	1	1	1

Analyte	MDL				
Ethyl benzene	0.9	ND	ND	ND	
Toluene	0.8	ND	ND	ND	
Total Xylenes	1.0	ND	ND	ND	
Acetone	10	ND	ND	ND	
n-Butylbenzene	0.7	ND	ND	ND	
sec-Butylbenzene	0.8	ND	ND	ND	
tert-Butylbenzene	0.7	ND	ND	ND	
2-Chloroethylvinyl ether	5.0	ND	ND	ND	
2-Chlorotoluene	1.0	ND	ND	ND	
4-Chlorotoluene	2.4	ND	ND	ND	
1,3-Dichloropropane	1.0	ND	ND	ND	
2,2-Dichloropropane	1.1	ND	ND	ND	
1,1-Dichloropropylene	0.7	ND	ND	ND	
Ethylene dibromide (EDB)	1.0	ND	ND	ND	
Hexachlorobutadiene	0.9	ND	ND	ND	
Isopropylbenzene	1.0	ND	ND	ND	
p-Isopropyltoluene	0.6	ND	ND	ND	
Methyl Ethyl Ketone	7.5	ND	ND	ND	
Methyl Isobutyl Ketone	8.3	ND	ND	ND	
Naphthalene	1.4	ND	ND	ND	
n-Propylbenzene	1.0	ND	ND	ND	
Styrene	1.3	ND	ND	ND	
1,2,3-Trichlorobenzene	0.9	ND	ND	ND	
1,2,4-Trichlorobenzene	0.9	ND	ND	ND	
1,2,4-Trimethylbenzene	0.9	ND	ND	ND	
1,3,5-Trimethylbenzene	0.7	ND	ND	ND	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	ND	ND	ND	
1,2-Dibromo-3-chloropropane (DBCP)	0.9	ND	ND	ND	
Surrogate	SPK CONC	ACP%	%RC	%RC	%RC
Pentafluorobenzene	50	70-130	102	99	100
Toluene-D ₈	50	88-110	91	91	91
4-Bromofluorobenzene	50	86-115	96	97	96

NA Not Applicable

MDL Method Detection Limit

ND None Detected at or above detection limit

SPK CONC = Spike Concentration; ACP% = Acceptable Range of Percent; %RC = % Recovery

* Date Analyzed using purge and trap technology (EPA Method 5030)

(tr) Trace level

Approved By: Eydie Schwartz Date: 5/11/95

WB352PDF/080794
 L952192.XLS - wb8260w (2) 5/12/95

Page No.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

Service Request No.: L952192

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Date Performed: 5/2/95
 Batch No.: K050195
 Lab Code: L952192-001

Analyte	Reporting Units	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP % MS	ACP RPD
Benzene	mg/Kg (ppm)	0.0200	0.0225	112	0.0230	115	2	39-150	25
Toluene	mg/Kg (ppm)	0.0200	0.0224	112	0.0229	114	2	46-148	25
Ethylbenzene	mg/Kg (ppm)	0.0200	0.0229	114	0.0234	117	2	32-160	25

II. Laboratory Quality Control Check Sample

Date Performed: 5/1/95
 Batch No.: K050195
 Lab Code: L952192-LCS

Analyte	Reporting Units	SPK CONC	Result	% Recovery	ACP %
Benzene	mg/Kg (ppm)	0.0200	0.0210	105	80-120
Toluene	mg/Kg (ppm)	0.0200	0.0211	106	80-120
Ethylbenzene	mg/Kg (ppm)	0.0200	0.0217	108	80-120

III. Calibration Standards

Analyte	INITIAL RF _{ave} Date: 2/21/95	% RSD ≤ 20%	DAILY RF Date: 5/1/95	% DIFF W/RF _{ave} ≤ ± 15%
Benzene	8.532 X 10 ⁻⁶	8	8.062 X 10 ⁻⁶	6
Toluene	8.876 X 10 ⁻⁶	9	8.550 X 10 ⁻⁶	4
Ethylbenzene	1.022 X 10 ⁻⁵	10	9.796 X 10 ⁻⁶	4
Total Xylenes	9.568 X 10 ⁻⁶	10	9.589 X 10 ⁻⁶	< 1

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By: Eydie SchwartzDate: 5/11/95WBPHOC/062794
L952192-LCS-WBBTEXQC 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

Service Request No.: L952192

III. Calibration Standards

Analyte	INITIAL RF _{avg} Date: 2/21/95	% RSD ≤ 20%	DAILY RF Date: 5/2/95	% DIFF W/RF _{avg} ≤ ± 15%
Benzene	8.532×10^{-6}	8	8.704×10^{-6}	2
Toluene	8.876×10^{-6}	9	9.195×10^{-6}	4
Ethylbenzene	1.022×10^{-5}	10	1.048×10^{-5}	3
Total Xylenes	9.568×10^{-6}	10	1.031×10^{-5}	8

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{avg} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By:

Eydie Schwartz

Date:

5/11/95

WBPHQC/062794
 L952192.XLS - WBBTEXQC (2) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

Service Request No.: L952192

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Date Performed: 5/3/95
 Batch No.: K050395
 Lab Code: L952192-013

Analyte	Reporting Units	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP % MS	ACP RPD
Benzene	mg/Kg (ppm)	0.0200	0.0185	92	0.0174	87	6	39-150	25
Toluene	mg/Kg (ppm)	0.0200	0.0186	93	0.0175	88	6	46-148	25
Ethylbenzene	mg/Kg (ppm)	0.0200	0.0192	96	0.0181	90	6	32-160	25

II. Laboratory Quality Control Check Sample

Date Performed: 5/3/95
 Batch No.: K050395
 Lab Code: L952192-LCS

Analyte	Reporting Units	SPK CONC	Result	% Recovery	ACP %
Benzene	mg/Kg (ppm)	0.0200	0.0211	106	80-120
Toluene	mg/Kg (ppm)	0.0200	0.0212	106	80-120
Ethylbenzene	mg/Kg (ppm)	0.0200	0.0219	110	80-120

III. Calibration Standards

Analyte	INITIAL RF _{ave} Date: 2/21/95	% RSD ≤ 20%	DAILY RF Date: 5/3/95	% DIFF W/RF _{ave} ≤ ± 15%
Benzene	8.532×10^{-6}	8	7.807×10^{-6}	8
Toluene	8.876×10^{-6}	9	8.257×10^{-6}	7
Ethylbenzene	1.022×10^{-5}	10	9.412×10^{-6}	8
Total Xylenes	9.568×10^{-6}	10	9.248×10^{-6}	3

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By:

Eydie Schwartz

Date:

5/11/95

WBPHQC/62794
L952192-LCS-WBTEXQC (3) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
Hydrocarbon Scan/Fuel Characterization
EPA Method Modified 8015/California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery <i>p</i> -Terphenyl
B-1,5'	L952192-001	82
B-1,10'	L952192-002	54
B-1,15'	L952192-003	75
B-1,20'	L952192-004	93
B-1,25'	L952192-005	85
B-1,30'	L952192-006	79
B-1,35'	L952192-007	81
B-1,40'	L952192-008	85
B-2,5'	L952192-009	72
B-2,10'	L952192-010	53
B-2,15'	L952192-011	86
B-2,20'	L952192-012	83
B-2,25'	L952192-013	69
B-2,30'	L952192-014	93
B-2,35'	L952192-015	89
B-2,40'	L952192-016	78
B-3,5'	L952192-017	70

CAS Acceptance Limits: 50-140

NA Not Applicable

Approved By: Eydie Schwartz Date: 5/11/95

SUR1/062994
L952192 XLS - 8015sur 5/12/95

Page No.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
Hydrocarbon Scan/Fuel Characterization
EPA Method Modified 8015/California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery <i>p</i> -Terphenyl
B-3,15'	L952192-018	74
B-3,20'	L952192-019	70
B-3,25'	L952192-020	81
B-3,30'	L952192-021	70
B-3,35'	L952192-022	80
B-3,40'	L952192-023	83
B-4,5'	L952192-024	*
B-4,10'	L952192-025	*
B-5,5'	L952192-026	85
B-5,10'	L952192-027	89
B-5,15'	L952192-028	91
Method Blank	L952192-MB	100
Method Blank	L952192-MB	119
Matrix Spike	L952192-8MS	116
Duplicate Matrix Spike	L952192-8DMS	88
Matrix Spike	L952192-23MS	62
Duplicate Matrix Spike	L952192-23DMS	90

CAS Acceptance Limits: 50-140

NA Not Applicable
* Not Applicable because of the sample matrix. The gas chromatogram showed target components that interfered with determination of the surrogate.

Approved By: Eydie Schwartz Date: 5/11/95
SUR1/062994
L952192.XLS - 8015 Scan (2) 5/12/95

Page No.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Service Request No.: L952192
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Date Performed: 5/6/95
 Batch No.: F050595
 Lab Code: L952192-008

Analyte	Reporting Units	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP % MS	ACP RPD
Diesel	mg/Kg (ppm)	200	248	124	218	109	13	70-140	25

II. Laboratory Quality Control Check Sample

Date Performed: 5/6/95
 Batch No.: F050595
 Lab Code: L952192-LCS

Analyte	Reporting Units	SPK CONC	Result	% Recovery	ACP %
Diesel	mg/Kg (ppm)	200	213	106	80-120

III. Calibration Standards

Analyte	INITIAL RF _{ave} Date: 5/2/95	% RSD ≤ 20%	DAILY RF Date: 5/5/95	% DIFF W/RF _{ave} ≤ ± 15%
Diesel	1.137 X 10 ⁻⁴	11	1.096 X 10 ⁻⁴	4

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By: Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request No.: L952192

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Date Performed: 5/6/95
Batch No.: F050595
Lab Code: L952192-023

Analyte	Reporting Units	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP % MS	ACP RPD
Diesel	mg/Kg (ppm)	200	174	87	204	102	16	70-140	25

II. Laboratory Quality Control Check Sample

Date Performed: 5/8/95
Batch No.: F050895
Lab Code: L952192-LCS

Analyte	Reporting Units	SPK CONC	Result	% Recovery	ACP %
Diesel	mg/Kg (ppm)	200	176	88	80-120

III. Calibration Standards

Analyte	INITIAL RF _{ave}	% RSD	DAILY RF	% DIFF W/RF _{ave}
	Date: 5/2/95	≤ 20%	Date: 5/5/95	≤ ± 15%
Diesel	1.137 X 10 ⁻⁴	11	1.002 X 10 ⁻⁴	13

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By: Eydie SchwantzDate: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Service Request No.: L952192
 Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
 Sample Matrix: Soil

III. Calibration Standards

Analyte	INITIAL RF _{ave} Date: 5/2/95	% RSD ≤ 20%	DAILY RF Date: 5/6/95	% DIFF W/RF _{ave} ≤ ± 15%
Diesel	1.137 X 10 ⁻⁴	11	1.166 X 10 ⁻⁴	3

SPK CONC = Spiking Concentration;

% MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD

RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

INITIAL RF_{ave} = Average Response Factor From Initial Calibration

DAILY RF = Response Factor From Daily Calibration

% RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By: Eydie Schwartz

Date: 5/11/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON **Service Request No.:** L952192
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

III Calibration Standards

Analyte	INITIAL RF _{ave}	% RSD	DAILY RF	% DIFF W/RF _{ave}
	Date: 5/2/95	≤ 20%	Date: 5/8/95	≤ ± 15%
Diesel	1.137 X 10 ⁻⁴	11	1.029 X 10 ⁻⁴	10

SPK CONC = Spiking Concentration;
 % MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD
 RPD = Relative Percent Difference; ACP = Acceptable Range of Percent
 INITIAL RF_{ave} = Average Response Factor From Initial Calibration
 DAILY RF = Response Factor From Daily Calibration
 % RSD = Percent Relative Standard Deviation; % DIFF = Percent Difference

Approved By: Eydie Schwartz Date: 5/11/95
WBPHQC/062794
 L952192.XLS - tpbwb (4) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3550/8270

Sample Name	Lab Code	P e r c e n t R e c o v e r y					
		2FP	PHL	TBP	NBZ	FBP	TPH
B-4,5'	L952192-024	93	99	61	67	76	88
B-4,10'	L952192-025	111	117*	101	79	110	57
B-5,5'	L952192-026	98	113	54	77	89	102
B-5,10'	L952192-027	98	108	49	71	83	95
B-5,15'	L952192-028	94	110	71	69	72	98
Method Blank	L952192-MB	113	110	81	89	94	106
Matrix Spike	L952192-28MS	91	100	69	76	75	93
Duplicate Matrix Spike	L952192-28DMS	81	90	67	69	73	85

CAS Acceptance Limits: 25-121 24-113 19-122 23-128 30-115 18-137

2FP 2-Fluorophenol
PHL Phenol-D₆
TBP 2,4,6-Tribromophenol
NBZ Nitrobenzene-D₅
FBP 2-Fluorobiphenyl
TPH Terphenyl-D₁₄

NA Not Applicable

* The USEPA allows up to two surrogate recoveries (one acid and one base/neutral) to be outside of acceptance limits, without requiring reanalysis, according to the 2/88 Contract Laboratory Program Statement of work.

Approved By: _____

Eydie Schwartz

Date: 5/11/95

SUR-6060804
L952192.XLS - 8270ms 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: 5/2/95
Date Analyzed: 5/3/95

Matrix Spike/Duplicate Matrix Spike Summary
Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3550/8270
Units: mg/Kg (ppm)

Sample Name: B-5,15'
Lab Code: L952192-028

Analyte	Spike Level		Sample Result	Spike Result		Percent Recovery			Relative Percent Difference
	MS	DMS		MS	DMS	MS	DMS	CAS Acceptance Limits	
Phenol	1.67	1.67	ND	1.51	1.41	90	84	26-90	7
2-Chlorophenol	1.67	1.67	ND	1.59	1.37	95	82	25-102	15
1,4-Dichlorobenzene	1.67	1.67	ND	1.37	1.14	82	68	28-104	18
N-Nitrosodi-n-propylamine	1.67	1.67	ND	1.77	1.56	106	93	41-126	13
1,2,4-Trichlorobenzene	1.67	1.67	ND	1.20	1.02	72	61	38-107	16
4-Chloro-3-methylphenol	1.67	1.67	ND	1.40	1.30	84	78	26-103	7
Acenaphthene	1.67	1.67	ND	1.64	1.49	98	89	31-137	10
4-Nitrophenol	1.67	1.67	ND	0.79	1.13	47	68	11-114	35
2,4-Dinitrotoluene	1.67	1.67	ND	1.37	0.69	82	41	28-89	66
Pentachlorophenol	1.67	1.67	ND	0.67	0.55	40	33	17-109	20
Pyrene	1.67	1.67	ND	1.73	1.53	104	92	35-142	12

NA Not Applicable
ND None Detected at or above reporting limit.

Approved By: Eydie Schwartz Date: 5/11/95
DMSIS060194
 L952192.XLS - 8270.mss 5/12/95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
LCS Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: 5/2/95
Date Analyzed: 5/3/95

Laboratory Control Sample Summary
Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3510/8270
Units: mg/Kg (ppm)

Analyte	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
Phenol	1.67	1.60	96	5-112
2-Chlorophenol	1.67	1.63	98	23-134
1,4-Dichlorobenzene	1.67	1.61	96	20-124
N-Nitrosodi-n-propylamine	1.67	1.88	126	D-230
1,2,4-Trichlorobenzene	1.67	1.36	81	44-142
4-Chloro-3-methylphenol	1.67	1.49	89	22-147
Acenaphthene	1.67	1.72	103	47-145
4-Nitrophenol	1.67	1.11	66	D-132
2,4-Dinitrotoluene	1.67	1.53	92	39-139
Pentachlorophenol	1.67	0.97	58	14-176
Pyrene	1.67	1.82	109	52-115

NA Not Applicable
D Detected; result must be greater than zero.

Approved By: Eydie Schwartz Date: 5/11/95
LCS/060194
 L952192.XLS - 82701.mw 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192

Date Analyzed: 5/3/95

Continuing Calibration Verification (CCV) Summary
Base Neutral/Acid Semivolatile Organic Compounds
EPA Method 8270

Analyte	Average Calibration Response Factor (RF _{ave})	Percent Relative Standard Deviation (%RSD)	Daily Response Factor (RF)	Percent Difference (%DIFF)
Phenol	0.847	16	0.870	3
1,4-Dichlorobenzene	0.789	20	0.868	10
2-Nitrophenol	0.252	17	0.226	10
2,4-Dichlorophenol	0.324	6	0.321	1
Hexachlorobutadiene	0.238	10	0.208	12
4-Chloro-3-methylphenol	0.384	5	0.381	1
2,4,6-Trichlorophenol	0.396	4	0.387	2
Acenaphthene	1.018	10	1.151	13
N-Nitrosodiphenylamine	0.361	18	0.428	18
Fluoranthene	1.087	2	1.305	20
Benzo (a) pyrene	0.973	2	1.012	4
D-n-octylphthalate	1.693	7	1.811	7
Pentachlorophenol	0.165	17	0.180	9

Approved By: Eydie SchwartzDate: 5/11/95

CCV40RF/060194

L952192.XLS - 8270ccc 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192
Date Analyzed: 5/5/95

Initial and Continuing Calibration Verification (ICV and CCV) Summary
pH
EPA Method 9045
pH (Units)

Sample Name	True Value	Result	Percent Recovery
ICV	4.21	4.28	102
CCV1	10.00	10.00	100

Approved By: _____

Eydie Schwartz

Date: 5/11/95

CCV1A/060194

L952192.XLS - genqocv 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192
Date Analyzed: 5/10/95

Initial and Continuing Calibration Verification (ICV and CCV) Summary
Hexavalent Chromium
EPA Methods 3060/7196A
Units: mg/L (ppm)

Sample Name	True- Value	Result	Percent Recovery
ICV	0.46	0.43	93
CCV1	0.46	0.44	96

Approved By: _____

Eydie Schwartz

Date: 5/11/95

CCV1A/060194

L952192.XLS - genqcov (2) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 5/5/95

Duplicate Summary
pH
EPA Method 9045
pH (Units)

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference
B-4,5'	L952192-024	9.94	10.38	10.16	4

NA Not Applicable
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit.

Approved By: Eydie Schwartz

Date: 5/11/95

DUP1A/060194
L952192.XLS - gendup 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Analyzed: 5/10/95

Initial and Continuing Calibration Blank (ICB and CCB) Summary
Hexavalent Chromium
EPA Methods 3060/7196A
Units: mg/L (ppm)

Sample Name	MDL	Result
ICB	0.1	ND
CCB1	0.1	ND

MDL Method Detection Limit.
ND None Detected at or above the method detection limit.
NA Not Applicable

Approved By: _____

Eydie Schwartz

Date: 5/11/95

ICCBMDL/061394
L952192.XLS - genqccbl 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
LCS Matrix: Water

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 5/10/95

Laboratory Control Sample Summary
Hexavalent Chromium
EPA Methods 3060/7196A
Units: mg/L (ppm)

Analyte	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
Cr ⁶⁺	0.50	0.43	86	75-125
Cr ⁶⁺	0.50	0.44	88	75-125

NA Not Applicable

Approved By: Eydie Schwartz Date: 5/11/95
LCS/060194
L952192.XLS - genlcs1 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 5/10/95

Matrix Spike/Duplicate Matrix Spike Summary
Hexavalent Chromium
EPA Methods 3060/7196A
Units: mg/Kg (ppm)

Sample Name: B-4,5'
Lab Code: L952192-024

Analyte	Spike Level		Sample Result	Spike Result		Percent Recovery			Relative Percent Difference
	MS	DMS		MS	DMS	CAS Acceptance Limits			
						MS	DMS		
Cr ⁶⁺	0.50	0.50	ND	0.39	0.39	78	78	40-140	< 1

ND None Detected at or above the method reporting limit.
NA Not Applicable

Approved By: Eydie Schwartz

Date: 5/11/95

DMS1S/060194
L952192.XLS - gcmms4 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

EPA Method 8260
 Reporting Units: µg/Kg (ppb)

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Date Performed: 5/4/95
Batch No.: 050495
Lab Code: L952161

Analyte	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP %MS	ACP RPD
1,1-Dichloroethene	5.00	4.33	87	5.36	107	21	59-172	22
Benzene	5.00	5.28	105	5.79	116	9	66-142	24
Trichloroethene	5.00	5.00	100	5.88	118	16	62-137	24
Toluene	5.00	4.62	92	4.96	99	7	59-139	21
Chlorobenzene	5.00	4.66	93	5.05	101	8	60-133	21

II. Laboratory Quality Control Check Sample

Date Performed: 5/4/95
Batch No.: 050495
Lab Code: L952192-LCS

Analyte	SPK CONC	Result	% Recovery	ACP %
1,1-Dichloroethene	5.00	4.58	92	80-120
Benzene	5.00	4.28	86	80-120
Trichloroethene	5.00	4.31	86	80-120
Toluene	5.00	4.64	93	80-120
Chlorobenzene	5.00	4.58	92	80-120

SPK CONC = Spiking Concentration;
 % MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD
 RPD = Relative Percent Difference; ACP = Acceptable Range of Percent

Approved By: Eddie Schwartz
 L952192-LCS - WQC 5-12-95

Date: 5/11/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192

III. Calibration Standard - EPA Method 8260 (Appendix II)

Most Recent Initial Calibration Date: 1/30/95
 Daily Calibration Date: 5/4/95
 Supply Source: AccuStandard

Analyte	Initial RF _{ave}	% RSD	Daily RF	% Diff w/RF _{ave}
Bromobenzene	0.507	11	0.537	6
Bromochloromethane	0.362	7	0.425	17
Bromodichloromethane	0.712	9	0.682	4
Bromoform	0.496	13	0.531	7
Bromomethane	0.387	4	0.418	8
Carbon tetrachloride	1.009	7	0.880	13
Chloroethane	0.225	7	0.260	16
Chloroform	1.181	4	1.101	7
Chloromethane	0.598	8	0.489	18
Dibromochloromethane	0.520	10	0.545	5
Dibromomethane	0.378	8	0.391	3
Dichloromethane (Methylene chloride)	0.620	10	0.513	17
Dichlorodifluoromethane	0.649	10	0.377	42
1,1-Dichloroethane (1,1-DCA)	1.215	7	1.196	2
1,2-Dichloroethane (1,2-DCA)	0.812	8	0.800	1
1,1-Dichloroethylene (1,1-DCE)	0.442	3	0.399	10
cis-1,2-Dichloroethylene	0.532	5	0.391	27
trans-1,2-Dichloroethylene	0.702	4	0.696	1
1,2-Dichloropropane	0.427	7	0.438	3
cis-1,3-Dichloropropylene	0.652	9	0.623	4
trans-1,3-Dichloropropylene	0.611	9	0.548	10
1,1,1,2-Tetrachloroethane	0.405	10	0.390	4
1,1,2,2-Tetrachloroethane	0.473	9	0.490	4
Tetrachloroethylene(PCE)	0.485	13	0.459	5
1,1,1-Trichloroethane (1,1,1-TCA)	1.006	4	0.897	11
1,1,2-Trichloroethane (1,1,2-TCA)	0.302	11	0.288	5
Trichloroethylene (TCE)	0.365	6	0.417	14
1,2,3-Trichloropropane	0.466	6	0.523	12

Initial RF_{ave} = Average Response Factor From Initial Calibration
 %RSD = Percent Relative Standard Deviation
 Daily RF = Response Factor From Daily Calibration
 %Diff w/RF_{ave} = Percent Difference with Average Response Factor

Approved By: Eydie Schwartz

Date: 5/11/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192

III Calibration Standard - EPA Method 8260 (Appendix II)

Most Recent Initial Calibration Date: 1/30/95
Daily Calibration Date: 5/4/95
Supply Source: AccuStandard

Analyte	Initial RF _{ave}	% RSD	Daily RF	% Diff w/RF _{ave}
Trichlorofluoromethane	0.952	8	0.858	10
Vinyl chloride (VC)	0.304	7	0.298	2
Benzene	0.930	6	1.123	21
Chlorobenzene	0.960	11	1.010	5
1,2-Dichlorobenzene	0.790	11	0.894	13
1,3-Dichlorobenzene	0.815	7	0.891	9
1,4-Dichlorobenzene	0.802	9	0.920	15
Ethyl benzene	1.426	8	1.459	2
Toluene	0.742	8	0.797	7
m,p-Xylenes	0.518	8	0.579	12
o-Xylene	0.479	7	0.481	< 1
Acetone	0.199	5	0.194	3
n-Butylbenzene	1.383	12	1.213	12
sec-Butylbenzene	1.772	13	1.727	3
tert-Butylbenzene	1.169	11	1.189	2
2-Chloroethylvinyl ether	0.277	16	0.090	68
2-Chlorotoluene	1.253	7	1.153	8
4-Chlorotoluene	1.257	9	1.228	2
1,3-Dichloropropane	0.585	11	0.578	1
2,2-Dichloropropane	0.985	6	0.903	8
1,1-Dichloropropylene	0.804	5	0.731	9
Ethylene dibromide (EDB)	0.553	11	0.543	2
Hexachlorobutadiene	0.429	10	0.513	20
Isopropylbenzene	1.512	11	1.486	2
p-Isopropyltoluene	1.169	11	1.189	2
Methyl Ethyl Ketone	0.178	4	0.215	21
Methyl Isobutyl Ketone	0.364	5	0.449	23
Naphthalene	1.177	4	1.282	9

Initial RF_{ave} = Average Response Factor From Initial Calibration

%RSD = Percent Relative Standard Deviation

Daily RF = Response Factor From Daily Calibration

%Diff w/RF_{ave} = Percent Difference with Average Response Factor

Approved By: Eydie Schwartz Date: 5/11/95

L952192.XLS - wbcs2 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED			5/2/95	5/2/95	5/2/95	5/2/95
DILUTION FACTOR			1	1	1	1
LAB SAMPLE I.D.			L952192-014	L952192-015	L952192-016	L952192-017
CLIENT SAMPLE I.D.			B-2,30'	B-2,35'	B-2,40'	B-3,5'
BTEX (EPA 8020)	MDL					
Benzene	0.0005		ND	ND	ND	ND
Toluene	0.0005		ND	ND	ND	ND
Ethylbenzene	0.0005		ND	ND	ND	0.0041
Total Xylenes	0.002		ND	ND	ND	0.033
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	86	83	78	87

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: Eydie SchwartzDate: 5/11/95

WBPHB/062794

L952192.XLS - wb8020w (5) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED			5/2/95	5/2/95	5/2/95	5/3/95
DILUTION FACTOR			1	1	1	1
LAB SAMPLE I.D.			L952192-018	L952192-019	L952192-020	L952192-021
CLIENT SAMPLE I.D.			B-3,15'	B-3,20'	B-3,25'	B-3,30'
BTEX (EPA 8020)	MDL		—			
Benzene	0.0005		ND	ND	ND	ND
Toluene	0.0005		ND	ND	ND	ND
Ethylbenzene	0.0005		0.0028	ND	ND	ND
Total Xylenes	0.002		0.027	ND	ND	ND
Surrogate	Spk Conc	ACP%	% RC	% RC	% RC	% RC
4-Bromofluorobenzene	50	60-130	71	90	87	91

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)
 MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);
 Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: Eydie Schwartz Date: 5/11/95

WBPHB/062794

L952192.XLS - wb8020w (6) 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192

Reporting Units: mg/Kg (ppm)

*DATE ANALYZED		5/3/95	5/3/95		
DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		L952192-022	L952192-023		
CLIENT SAMPLE I.D.		B-3,35'	B-3,40'		
BTEX (EPA 8020)	MDL				
Benzene	0.0005	ND	ND		
Toluene	0.0005	ND	ND		
Ethylbenzene	0.0005	ND	ND		
Total Xylenes	0.002	ND	ND		
Surrogate	Spk Conc	ACP%	% RC	% RC	
4-Bromofluorobenzene	50	60-130	83	87	

*Date Analyzed = Date Extracted using Purge and Trap Technology (EPA Method 5030)

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL);

Spk Conc = Spike Concentration; ACP % = Acceptable Range of Percent; % RC = % Recovery

Approved By: Eydie SchwartzDate: 5/11/95

WBPHB/062794

L952192.XLS - wb8020w (7) 5/12/95

Page No :

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank
Sample Matrix: Soil

Service Request: L952192
Date Collected: 4/28/95
Date Received: 5/1/95
Date Extracted: 5/2/95

Hydrocarbon Scan/Fuel Characterization¹
 EPA Method Modified 8015/California DHS LUFT Method
 Units: mg/Kg (ppm)

Sample Name	Lab Code	Date Analyzed	MRL	Result	Fuel Characterization	Hydrocarbon Range
B-1,5'	L952192-001	5/5/95	10	ND	None	NA
B-1,10'	L952192-002	5/5/95	10	ND	None	NA
B-1,15'	L952192-003	5/5/95	10	ND	None	NA
B-1,20'	L952192-004	5/5/95	10	ND	None	NA
B-1,25'	L952192-005	5/6/95	10	ND	None	NA
B-1,30'	L952192-006	5/6/95	10	ND	None	NA
B-1,35'	L952192-007	5/5/95	10	ND	None	NA
B-1,40'	L952192-008	5/5/95	10	ND	None	NA
B-2,5'	L952192-009	5/5/95	10	ND	None	NA
B-2,10'	L952192-010	5/5/95	10	ND	None	NA
B-2,15'	L952192-011	5/5/95	10	ND	None	NA
B-2,20'	L952192-012	5/5/95	10	ND	None	NA
B-2,25'	L952192-013	5/5/95	10	ND	None	NA
B-2,30'	L952192-014	5/5/95	10	ND	None	NA
B-2,35'	L952192-015	5/5/95	10	ND	None	NA
B-2,40'	L952192-016	5/5/95	10	ND	None	NA
B-3,5'	L952192-017	5/6/95	10	ND	None	NA

¹ Hydrocarbon Scan/Fuel Characterization represents a hydrocarbon scan C₄ thru C₃₀ hydrocarbons.
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit
NA Not Applicable

Approved By: Eydie Schwartz Date: 5/11/95

HScanFC/091494
 L952192.XLS - 80156: 5/12/95

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON
Project: Andrew Jergens Co., 99 W. Verdugo Ave, Burbank

Service Request: L952192

III. Calibration Standard - EPA Method 8260 (Appendix II)

Most Recent Initial Calibration Date: 1/30/95
Daily Calibration Date: 5/4/95
Supply Source: AccuStandard

Analyte	Initial RF _{ave}	% RSD	Daily RF	% Diff w/RF _{ave}
n-Propylbenzene	1.860	11	1.809	3
Styrene	0.991	8	1.055	6
1,2,3-Trichlorobenzene	0.801	8	0.712	11
1,2,4-Trichlorobenzene	0.644	3	0.747	16
1,2,4-Trimethylbenzene	1.661	5	1.358	18
1,3,5-Trimethylbenzene	1.237	4	0.186	85
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.416	8	0.385	7
1,2-Dibromo-3-chloropropane (DBCP)	0.147	11	0.206	40

Initial RF_{ave} = Average Response Factor From Initial Calibration

%RSD = Percent Relative Standard Deviation

Daily RF = Response Factor From Daily Calibration

%Diff w/RF_{ave} = Percent Difference with Average Response Factor

Approved By: Eydie Schwartz Date: 5/11/95

WBVCOCSV062794
L952192.XLS - wbcs2 5/12/95/

Page No.:

GOLDEN STATE/CAS

LABORATORIES, INC.

25 CANOGA AVENUE ■ CANOGA PARK, CA 91303
818 587-5550 ■ FAX #818 587-5555

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

DATE 4/28/95 PAGE 1 OF 3

COMPANY/ADDRESS <u>Emcon/3300 N. SAN</u> <u>FERNANDO BLVD, BURBANK</u> PHONE <u>818 841-1160</u>					GS/CAS # <u>L952192</u> ANALYSIS REQUESTED																								
PROJECT NAME/LOCATION <u>ANDREW JERGENS CO.</u> <u>99 W. VERDUGO AVE. BURBANK</u>					NUMBER OF CONTAINERS																								
PROJECT MNGR. <u>SALLY B. LORRAU</u>																													
SAMPLERS SIGNATURE <u>Mark Kuncie</u>																													
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX		TPH/Gas/TEX 8015/820/820	TPH/8015 Modified Diesel □ FC Gasoline □	BTX 802/820	Total Petroleum Hydrocarbons EPA 418.1	Halogenated Volatiles 801/8010	Volatile Organics 82/MS 82/820/820	Residual/Total Organic 82/MS 82/820	CAM Metals 8010/7000							REMARKS									
B-1, 5'	4/28/95		L952192-1	SOIL	1		X	X																					
B-1, 10'	4/28/95			2	1		X	X																					
B-1, 15'	4/28/95			3	1		X	X																					
B-1, 20'	4/28/95			4	1		X	X																					
B-1, 25'	4/28/95			5	1		X	X																					
B-1, 30'	4/28/95			6	1		X	X																					
B-1, 35'	4/28/95			7	1		X	X																					
B-1, 40'	4/28/95			8	1		X	X																					
B-2, 5'	4/28/95			9	1		X	X																					
B-2, 10'	4/28/95			10	1		X	X																					
B-2, 15'	4/28/95			11	1		X	X																					
B-2, 20'	4/28/95			12	1		X	X																					
RELINQUISHED BY: <u>Mark Kuncie</u> Signature <u>Emcon</u> Firm <u>5-1-95</u> Date/Time <u>4/28/95 10:10 AM</u>					RECEIVED BY: <u>GS/CAS</u> Signature <u>5-1-95</u> Firm <u>10:10 AM</u> Date/Time					TURNAROUND REQUIREMENTS: 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 5 day <input checked="" type="checkbox"/> Standard Other (Specify) _____ Provide Verbal Preliminary Results _____ Requested Report Date _____					REPORT REQUIREMENTS: I. Routine Report _____ II. Report (includes DUP, MS, MSD, as required, may be charged as samples) _____ III. Data Validation Report (includes All Raw Data) _____ <input checked="" type="checkbox"/> RWQCB					INVOICE INFORMATION: P.O. # _____ Bill to: _____ _____					SAMPLE RECEIPT: Shipping VIA: _____ Shipping #: _____ Condition: _____ Accepted for Analysis by: _____				
RELINQUISHED BY: Signature _____ Firm _____ Date/Time _____					RECEIVED BY: Signature _____ Firm _____ Date/Time _____					RELINQUISHED BY: Signature _____ Firm _____ Date/Time _____					RECEIVED BY: Signature _____ Firm _____ Date/Time _____					SPECIAL INSTRUCTIONS/COMMENTS: <u>5-10.</u>									

GOLDEN STATE/CAS

LABORATORIES, INC.

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303
818 587-5550 ■ FAX #818 587-5555

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 4/28/85 PAGE 2 OF 3

COMPANY/ADDRESS					NUMBER OF CONTAINERS	ANALYSIS REQUESTED															
PROJECT NAME/LOCATION						REMARKS															
PROJECT MGR.																					
SAMPLERS SIGNATURE																					
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX																	
B-2, 25'	4/28/95		L952192-13	Soil	1																
B-2, 30'	4/28/95		14		1																
B-2, 35'	4/28/95		15		1																
B-2, 40'	4/28/95		16		1																
B-3, 5'	4/28/95		17		1																
B-3, 15'	4/28/95		18		1																
B-3, 20'	4/28/95		19		1																
B-3, 25'	4/28/95		20		1																
B-3, 30'	4/28/95		21		1																
B-3, 35'	4/28/95		22		1																
B-3, 40'	4/28/95		23		1																

RELINQUISHED BY:		RECEIVED BY:		TURNAROUND REQUIREMENTS:		REPORT REQUIREMENTS:		INVOICE INFORMATION:		SAMPLE RECEIPT:	
Signature	EMC2A	Signature	GS/CAS	24 hr	48 hr	5 day	I. Routine Report	P.O. #	Shipping VIA:		
Firm	4/28/95 10:10 AM	Firm	5-1-95 10:10 AM	<input checked="" type="checkbox"/> Standard			II. Report (includes DUP, MS, MSD, as required, may be charged as samples)	Bill to:	Shipping #:		
Date/Time		Date/Time		<input type="checkbox"/> Other (Specify)			III. Data Validation Report (includes All Raw Data)		Condition:		
				<input type="checkbox"/> Provide Verbal Preliminary Results			<input checked="" type="checkbox"/> RWOGB		Accepted for Analysis by:		
				Requested Report Date							

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:		SPECIAL INSTRUCTIONS/COMMENTS:	
Signature		Signature		Signature		Signature		5.10.	
Firm		Firm		Firm		Firm			
Date/Time		Date/Time		Date/Time		Date/Time			

GOLDEN STATE/CAS

LABORATORIES, INC.

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303
818 587-5550 ■ FAX #818 587-5555

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 4/28/85 PAGE 3 OF 3

COMPANY/ADDRESS <u>Emcan / 7300 N. SAN</u> <u>FERNANDO BLVD., BURBANK</u> PHONE <u>818 841-1160</u> PROJECT NAME/LOCATON <u>ANDREW VERGENS CD</u> <u>99.W. VERDUGO AVE. BURBANK</u> PROJECT MNGR. <u>SALLY RILORDAN</u> SAMPLERS SIGNATURE <u>MARK KLUMIC</u>				NUMBER OF CONTAINERS <div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); transform-origin: center;"> GS/CMS # L952192 </div>		ANALYSIS REQUESTED <div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); transform-origin: center;"> TPH Gas/BTEX 8015/820/802 TPV/815 Modified Diesel 0 FC Gasoline 0 BTEX 802/820 Total Petroleum Hydrocarbons EPA 418.1 Halogenated Volatiles 801/8010 Volatile Organics 801/820 GC/MS 801/820 Base/Nucl/Org 801/820 GC/MS 801/820 CAN Heavy Metals 801/820 PH 150.1 </div>																																																																																																																																																																																																																																																																	
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259

ATTACHMENT 3

**BORINGS B-6 AND B-7 ANALYTICAL RESULTS
AND CHAIN-OF-CUSTODY DOCUMENTATION**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Former Andrew Jergens Fac./#2349-600,001
Sample Matrix: Soil

Service Request: L9504195
Date Collected: 12/1/95
Date Received: 12/1/95
Date Extracted: 12/4/95

Hydrocarbon Scan/Fuel Characterization¹
EPA Method Modified 8015/California DHS LUFT Method
Units: mg/Kg (ppm)

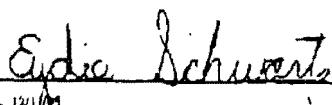
Sample Name	Lab Code	Date Analyzed	MRL	Result	Fuel Characterization	Hydrocarbon Range
B-6, 5'	L9504195-001	12/5/95	10	66	*	*
B-6, 10'	L9504195-002	12/5/95	10	6200	**	C ₉ -C ₃₀
B-6, 15'	L9504195-003	12/5/95	10	10000	**	C ₉ -C ₁₀
B-6, 20'	L9504195-004	12/4/95	10	ND	None	NA
B-6, 25'	L9504195-005	12/4/95	10	ND	None	NA
B-6, 30'	L9504195-006	12/4/95	10	ND	None	NA
B-6, 35'	L9504195-007	12/4/95	10	ND	None	NA
B-6, 40'	L9504195-008	12/5/95	10	ND	None	NA
B-6, 45'	L9504195-009	12/5/95	10	ND	None	NA
B-6, 50'	L9504195-010	12/5/95	10	ND	None	NA
B-7, 5'	L9504195-011	12/5/95	10	ND	None	NA
B-7, 10'	L9504195-012	12/5/95	10	ND	None	NA
B-7, 15'	L9504195-013	12/5/95	10	ND	None	NA
B-7, 20'	L9504195-014	12/5/95	10	ND	None	NA
B-7, 25'	L9504195-015	12/5/95	10	ND	None	NA
B-7, 30'	L9504195-016	12/5/95	10	ND	None	NA
B-7, 35'	L9504195-017	12/5/95	10	ND	None	NA
B-7, 45'	L9504195-018	12/5/95	10	ND	None	NA
B-7, 50'	L9504195-019	12/5/95	10	ND	None	NA
Method Blank	L9504195-MB	12/4/95	10	ND	None	NA

¹ Hydrocarbon Scan/Fuel Characterization represents a hydrocarbon scan C₁ thru C₃₀ hydrocarbons.

* Chromatogram fingerprint indicates a fuel hydrocarbon mixture eluting within the gasoline (C₇-C₁₀) and heavy oil (C₁₈-C₂₄) ranges.

** Chromatogram fingerprint indicates a fuel hydrocarbon mixture eluting within the diesel and heavy oil ranges.

Approved By:



Date: 12/11/95

12/11/95 12:15 PM

Page No.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON
Project: Former Andrew Jergens Fac./#2349-600,001
Sample Matrix: Soil

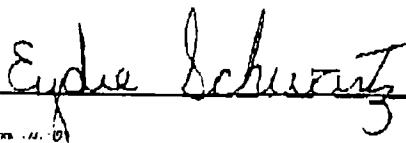
Service Request: L9504195
Date Collected: 12/1/95
Date Received: 12/1/95
Date Extracted: NA

BTEX
EPA Methods 5030/8020

Analyte:	Benzene	Toluene	Ethylbenzene	Total Xylenes
Units:	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Method Reporting Limit:	0.005	0.005	0.005	0.005

Sample Name	Lab Code	Date Analyzed				
B-6, 5'	L9504195-001	12/4/95	ND	ND	0.013	0.029
B-6, 10'	L9504195-002	12/4/95	ND	ND	0.033	0.043
B-6, 15'	L9504195-003	12/4/95	ND	ND	0.020	0.028
B-6, 20'	L9504195-004	12/4/95	ND	ND	ND	ND
B-6, 25'	L9504195-005	12/4/95	ND	ND	ND	ND
B-6, 30'	L9504195-006	12/4/95	ND	ND	ND	ND
B-6, 35'	L9504195-007	12/4/95	ND	ND	ND	ND
B-6, 40'	L9504195-008	12/4/95	ND	ND	ND	ND
B-6, 45'	L9504195-009	12/4/95	ND	ND	ND	ND
B-6, 50'	L9504195-010	12/4/95	ND	ND	ND	ND
B-7, 5'	L9504195-011	12/5/95	ND	ND	ND	ND
B-7, 10'	L9504195-012	12/5/95	ND	ND	ND	ND
B-7, 15'	L9504195-013	12/5/95	ND	ND	ND	ND
B-7, 20'	L9504195-014	12/5/95	ND	ND	ND	ND
B-7, 25'	L9504195-015	12/5/95	ND	ND	ND	ND
B-7, 30'	L9504195-016	12/5/95	ND	ND	ND	ND
B-7, 35'	L9504195-017	12/5/95	ND	ND	ND	ND
B-7, 45'	L9504195-018	12/5/95	ND	ND	ND	ND
B-7, 50'	L9504195-019	12/5/95	ND	ND	ND	ND
Method Blank	L9504195-MB	12/4/95	ND	ND	ND	ND

Approved By:



Date: 12/11/95

SAL/20094

12/10/95 11:01 AM

Page 1/1



GOLDEN STATE/CAS
LABORATORIES, INC.

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

6925 CANOGA AVENUE • CANOGA PARK, CA 91303
818 587-5550 • FAX 818 587-5555

CAS SERVICE REQUEST #: L9504195

DATE 12-1-95 PAGE 1 OF 2

COMPANY/ADDRESS EMCON / 3300 N. SAN
FERNANDO BLVD., BURBANK
PHONE 818/24-1166
PROJECT NAME/LOCATION FORMER ANDREW JERMAN'S FAC.
99 W. VERDEGA AVE. BURBANK / PROJECT # 234A-600-001
PROJECT MGR ERIN O'CONNELL
SAMPLERS SIGNATURE Mark Kuncir

NUMBER OF CONTAINERS

ANALYSIS REQUESTED

PHASE I
818/24-1166
PHASE II
818/24-1166
BTX
818/24-1166
Total Petroleum Hydrocarbons
EPA 418.1
Halogenated Hydrocarbons
818/24-1166
Inorganic Compounds
818/24-1166
Semi-volatile Organic
Compounds
818/24-1166
CMI Metals
818/24-1166

REMARKS

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX
B-6, 5'	12/1/95		1	SOIL
B-6, 10'	12/1/95		2	
B-6, 15'	12/1/95		3	
B-6, 20'	12/1/95		4	
B-6, 25'	12/1/95		5	
B-6, 30'	12/1/95		6	
B-6, 35'	12/1/95		7	
B-6, 40'	12/1/95		8	
B-6, 45'	12/1/95		9	
B-6, 50'	12/1/95		10	
B-7, 5'	12/1/95		11	
B-7, 10'	12/1/95		12	

RELINQUISHED BY:
Signature [Signature]
Firm EMCON
Date/Time 12-1-95 / 3:45

RECEIVED BY:
Signature [Signature]
Firm GSC/CRS
Date/Time 12-1-95 3:45

TURNAROUND REQUIREMENTS:
24 hr ___ 48 hr ___ 5 day ___
☒ Standard
Other (Specify) ___
☒ Provide Verbal Preliminary Results
Requested Report Date ___

REPORT REQUIREMENTS:
☒ I. Routine Report
☐ II. Report (includes DUP, MS, MSD, as required, may be charged as samples)
☐ III. Data Validation Report (includes All Raw Data)
RWCS

INVOICE INFORMATION:
P.O. # ___
Bill to: ___

SAMPLE RECEIPT:
Shipping VIA: ___
Shipping #: ___
Condition: ___
Accepted for Analysis by: ___

RELINQUISHED BY:
Signature
Firm
Date/Time

RECEIVED BY:
Signature
Firm
Date/Time

RELINQUISHED BY:
Signature
Firm
Date/Time

RECEIVED BY:
Signature
Firm
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:

RCV BY: EMCON
12-11-95 5:13PM
CCITT LCM-
EMCON ASSOCIATES: # 5

6925 CANOGA AVENUE • CANOGA PARK, CA 91303
818 587-5550 • FAX 818 587-5555

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

CAS SERVICE REQUEST #:

L9504/95

DATE 12-1-85 PAGE 2 OF 2

ECM→ EMCON ASSOCIATES: # 6

12-11-95 : 5:14PM

KEY BY: EMCON

[illegible]

ATTACHMENT 4
BORING LOGS B-1, B-2, B-3, B-6, AND B-7

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-1

PROJECT NAME Andrew Jergens Company

PAGE 1 OF 3

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	1.5	10 10 14		5			SILTY SAND (SM), very dark grayish brown (10Y, 3/2); 30% low-plasticity fines; 60% fine; 10% medium; trace coarse-grained sand, subangular to subrounded; medium dense; damp; no odor.	
2.0	1.5	6 7 12		10			@10': olive brown (2.5Y, 4/3); 35% low-plasticity fines; 65% fine-grained sand; medium dense; damp; no odor.	
2.1	1.5	7 8 15		15			@15': light olive brown (2.5Y, 5/3); 20% non to low-plasticity fines; 70% fine; 10% medium-grained sand; medium dense; damp; no odor.	
				20			SAND with SILT (SP-SM), described on next page.	



REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-1

PROJECT NAME Andrew Jergens Company

PAGE 2 OF 3

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
6.6	1.5	15 16 19					SAND with SILT (SP-SM), light olive brown (2.5Y, 5/4); 10% non to low-plasticity fines; 70% fine; 5% medium; 10% coarse-grained sand, subangular; 5% fine gravel (to 0.25" dia.), subangular; dense; damp; no odor.	
0.0	1.5	14 18 26		25			SAND (SP), light olive brown (2.5Y, 5/4); 5% nonplastic fines; 55% fine; 20% medium; 10% coarse-grained sand, subangular to subrounded; 10% fine gravel (to 0.5" dia.), angular to subrounded; trace coarse gravel (to 3" long), subangular; dense; damp; no odor.	
0.0	1.0	21 28 29		30			@30': light olive brown (2.5Y, 5/4); 5% nonplastic fines; 70% fine; 15% medium; 5% coarse-grained sand, subangular to subrounded; 5% fine gravel (to 0.75" dia.), subangular; dense; damp; no odor.	
0.0	1.0	18 21 23		35			SANDY SILT (ML), light olive brown (2.5Y, 5/4); 80% non to low-plasticity fines; 20% fine-grained sand; trace medium sand; dense; damp; no odor.	
				40			SAND (SP), described on next page.	



REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-1

PROJECT NAME Andrew Jergens Company

PAGE 3 OF 3

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
--	0.7	20 50/6"					<p>SAND (SP), light olive brown (2.5Y, 5/4); 5% nonplastic fines; 70% fine; 15% medium; 5% coarse-grained sand, subangular to subrounded; 5% fine gravel; no odor.</p> <p>BORING TERMINATED AT 41 FBG.</p>	
				45				
				50				
				55				
				60				



EMCON

REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-2

PROJECT NAME Andrew Jergens Company

PAGE 1 OF 3

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	1.5	9 12 15		5			SILTY SAND (SM), very dark grayish brown (10YR, 3/2); 40% non to low-plasticity fines; 60% fine-grained sand; trace coarse sand, subangular; trace fine gravel (to 0.75" dia.), subangular; medium dense; damp; weathered oil odor.	
0.0	1.5	6 7 12		10			@10': light olive brown (2.5Y, 5/4); 20% medium-plasticity fines; 75% fine; 5% medium; trace coarse-grained sand, subangular; medium dense; damp; no odor. @11.2': Fine gravel (to 0.5" dia.), angular.	
0.0	1.5	6 8 9		15			@15': 15% low-plasticity fines; 80% fine-grained sand; trace medium sand; trace fine gravel (to 0.75" dia.), subrounded; medium dense; damp; no odor.	
				20				



EMCON

REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01
PROJECT NAME Andrew Jergens Company
BY M. Kuncir DATE 4/28/95

BORING NO. B-2
PAGE 2 OF 3
SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	0.7	7 9 19					@20': As above.	
0.0	1.2	15 21 17		25			SAND (SP), olive brown (2.5Y, 4/3); trace nonplastic fines; 80% fine; 10% medium; 5% coarse-grained sand, subangular; 5% fine gravel (to 0.5" dia.), subangular to subrounded; dense; damp; no odor.	
0.0	1.0	12 17 18		30			@30': As above.	
0.0	1.5	19 20 21		35			@35': light olive brown (2.5Y, 5/3); trace nonplastic fines; 50% fine; 30% medium; 15% coarse-grained sand, subangular to subrounded; 5% fine gravel (to 1" dia.), subangular to subrounded; dense; damp; no odor.	
				40				



EMCON

REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER **2349-600.01**

BORING NO. **B-2**

PROJECT NAME **Andrew Jergens Company**

PAGE **3 OF 3**

BY **M. Kuncir** DATE **4/28/95**

SURFACE ELEV. **NA ft.**

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetra- tion (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	1.5	18 21 25					@40': SAND (SP), continued.	
				45			BORING TERMINATED AT 41.5 FBG.	
				50				
				55				
				60				



REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-3

PROJECT NAME Andrew Jergens Company

PAGE 1 OF 3

BY M. Kuncir

DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
3.0	1.0	8 11 12		5			SILTY SAND (SM), dark grayish brown (2.5Y, 4/2); 15% medium-plasticity fines; 85% fine-grained sand; medium dense; damp; no odor.	
--	0	6 11 14		10			@10': No recovery.	
--	0.5	9 7 18		15			@15': light olive brown (2.5Y, 5/4); 15% low-plasticity fines; 85% fine-grained sand; trace fine gravel (to 0.5" dia.), subrounded; medium dense; damp; no odor.	
				20			SAND (SP), described on next page.	



EMCON

REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-3

PROJECT NAME Andrew Jergens Company

PAGE 2 OF 3

BY M. Kuncir

DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	0.5	15 16 20					SAND (SP), light olive brown (2.5Y, 5/4); 5% nonplastic fines; 75% fine; 20% medium-grained sand; very dense; damp; no odor.	
	0	50/6"		25				
0.0	1.5	12 15 18					@26': light olive brown (2.5Y, 5/4); 5% nonplastic fines; 80% fine; 10% medium; 5% coarse-grained sand, subangular; trace fine gravel (to 0.75" dia.), subangular; very dense; damp; no odor.	
0.0	1.0	20 50/6"		30			SILTY SAND (SM), olive brown (2.5Y, 4/3); 15% nonplastic fines; 85% fine-grained sand; micaceous; very dense; damp; no odor.	
0.0	0.7	12 16 18		35			@35': 20% low to medium-plasticity fines; 80% fine-grained sand; dense; moist; no odor.	
				40			SAND with SILT (SP-SM), described on next page.	



REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 2349-600.01

BORING NO. B-3

PROJECT NAME Andrew Jergens Company

PAGE 3 OF 3

BY M. Kuncir DATE 4/28/95

SURFACE ELEV. NA ft.

PID Reading (ppm)	Sample Recovery (ft-in.)	Penetration (Blows per 6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
0.0	1.2	10 15 28					SAND with SILT (SP-SM), olive brown (2.5Y, 4/3); 10% nonplastic fines; 90% fine-grained sand; dense; damp; no odor.	
				45			BORING TERMINATED AT 41.5 FBG.	
				50				
				55				
				60				



EMCON

REMARKS

Boring drilled to 41 feet below grade (fbg) by Apex Drilling using a 8" dia. hollow-stem auger drill rig. Samples were collected every 5 feet using a split-ring sampler driven by a 140 lb. down-hole hammer. Boring backfilled to surface with bentonite chips. No groundwater was encountered during drilling.



FIELD LOG OF EXPLORATORY BORING

PROJECT No. 2349-600.001 DATE 12-1-95
CLIENT Andrew Jorgens Co
LOCATION 99 W. Verdugo
LOGGED BY M. Kuncir / S. Bilodeau

BORING No. B-6
Sheet 1
of 1

Field location of boring:

Near center of former tanks 5, 6, 7, 8

Drilling Co. Drill Line
Drill rig model CME 75
Drilling method HSA

Hole dia. 8"

Boring completion data Drilled to Feet, sampled
at 5' intervals;

Ground Elev.

Datum

PID	Pocket Penetrometer (TSF)	Blows/6 in. and/or pressure (PSI)	Type of Sampler	Recovery (ft/ft)	Sample Number and Container Type	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to ▽	Time	Date	DESCRIPTION
						1			SM					
						2								
						3								
						4								
44.3		3		1.0/1.5		5								
		3				6								
		4				7								
						8								
						9								
31.7		7		1.5/1.5		10			ML					
		7				11								
		11				12								
						13								
						14								
30.3		11		1.5/1.5		15			SM					
		18				16								
		22				17								
						18								
						19								
						20								

Silty Sand (SM) Dark greyish brown (2.5g 4/2) 20% non to low plastic fines 80% fine grained sand, trace of medium grained angular sand, loose, hydrocarbon odor

Sandy Silt (ML) Very dark greyish brown (2.5g 3/2) 60% non to low plastic fines, 40% v. fine grained sand, moist, mod. dense, petroleum odor hydrocarbon

Silty Sand (SM) Very dark greyish brown (2.5g 3/2) 60% v. 40% non to low plastic fines, 60% v. fine grained sand, moist, mod. dense, hydrocarbon odor

gradational change to:

Reviewed by: SWB Date: 12/1/98

Rev. 10/90



FIELD LOG OF EXPLORATORY BORING

PROJECT No. _____ DATE _____
CLIENT _____
LOCATION _____
LOGGED BY _____

BORING No. B-6
Sheet 2
of _____

Field location of boring:

Drilling Co. _____
Drill rig model _____
Drilling method _____
Hole dia. _____

Boring completion data _____

Ground Elev. _____

Datum _____

P/D	Pocket Penetrometer (TSP)	Blows/6 in. and/or pressure (PSI)	Type of Sampler	Recovery (ft/ft)	Sample Number and Container Type	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to ▽	Time	Date	DESCRIPTION
0		16		1.5/1.5		20								Sand to Silty Sand (SM-SP)
		31				21			SM-SP					material changes color to olive brown (2.5% 5/3) and coarsens to 15% non to low plastic fines
		40				22								85% fine grained sand, dense, damp, NO hydrocarbon odor, NO staining
						23								gradational change to:
						24								
0		50		6 1/8"		25			SP					Sand (SP) Poorly graded sand
						26								Olive brown (2.5% 4/3) up to 5% non plastic fines, 95% fine grained sand, trace of medium and coarse sand, medium and coarse sand is sub angular. & very dense, damp
						27								NO odor, NO staining.
						28								
						29								
0		20		1.0/1.5		30			SP					at 30' as above - almost no fines, silt
		24				31								some coarse sand and fine gravel present, sub angular to sub rounded. Largest clast is 0.5"
		30				32								
						33								
						34								
0		39		6 1/8"		35			SP					at 35' same as above
		50/1.5"				36								
						37								
						38								
						39								
						40								

Reviewed by: SWB Date: 12/1/95

Rev. 10/90



FIELD LOG OF EXPLORATORY BORING

PROJECT No. _____ DATE _____
CLIENT _____
LOCATION _____
LOGGED BY _____

BORING No. B-8
Sheet 3
of _____

Field location of boring:

Drilling Co. _____
Drill rig model _____
Drilling method _____
Hole dia. _____

Boring completion data _____

Ground Elev. _____

Datum _____

PID	Pocket Penetrometer (TSF)	Blows/6 in. and/or pressure (PSI)	Type of Sampler	Recovery (ft/ft)	Sample Number and Container Type	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to ▽	Time	Date	DESCRIPTION
0		29		29 1/4		40				SP				at 40' no gravel present
		32		32		41								95% fine grained sand
		50 1/2"		50 1/2"		42								5% medium to coarse
						43								grained sand. Grains
						44								are sub angular. No odor
						45								no staining
0		60 1/6"		6 1/6"		46								at 45' trace of silt evident
						47								
						48								
						49								
0		60 1/6"		5 1/6"		50								at 50' same as above with a
														trace of fine gravel present
														Boring reached target depth
														of 50' and was terminated

Reviewed by: SWB Date: 12/1/85

Rev. 10/90



FIELD LOG OF EXPLORATORY BORING

PROJECT No. 2349-600-001 DATE 12-1-95
CLIENT ANDREW JARRENS CO.
LOCATION 89 W. VERDUGO AVE
LOGGED BY BOBANK
DR. KANAKA

BORING No. B-7
Sheet 1
of 3

Field location of boring: N. SIDE OF FORMER
TANK 5, 6, 7 & 8 EXCAVATION. DRILLED
BORING @ 20° FROM VERTICAL, NORTHWARD
UNDER BLOCK WALL

Drilling Co. DRILL CLARK
Drill rig model CMA-75
Drilling method HSA

Hole dia. 8"

Boring completion data DRILLED TO 50', STOPPED AT
5' INTERVALS, BACKFILLED W/ MCD. BENTONITE
CHIPS - HYDRATED. DRILLED @ 20° FROM VERT.

Ground Elev.

Datum

PID (PPM)	Pocket Penetrometer (TSF)	Blows/6 in. and/or "rescue" (PSI)	Type of Sampler	Recovery (ft/ft)	Sample Number and Container Type	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to ▽ Time Date	NA	Depth to ▽ Time Date				DESCRIPTION
						1											
						2											
						3											
						4			Sm								SILTY SAND (Sm); DK GRAY. BRN. (2.54 1/2); 20% NON TO LOW PLASTIC FINES; 80% FINE SAND; TRACE OF MED. SAND; LOOSE DAMP; NO ODOR OR STAINING.
4.9		6				5	X										
		5	mc	1.2/1.5	B-7.5	6	X										
		5				7											
						8											
						9											
						10			ML								SANDY SILT (ML); OLIVE BRN. (2.54 5/8); 55% LOW TO MED PLASTIC FINES; 45% FINE SAND; STIFF; DAMP; NO ODOR OR STAINING.
5.3		6				11	X										
		7	mc	1.5/1.5	B-7.0	12											
		8				13											
						14			Sm								
						15											
5.5		4				16	X		St Sm								@ 15.5': SAND W/ SILT (SP-Sm); DK GRAY. BRN. (2.54 1/2); 10% NON TO LOW PLASTIC FINES; 60% FINE SAND; 10% MED. SAND; 20% COARSE SAND, SUBANG.; MED. DENSE; DAMP; NO ODOR OR STAINING.
		6	mc	1.5/1.5	B-7.0	17											
		6				18			Sm								
						19											@ 15.7': SILTY SAND (Sm); OLIVE BRN. (2.54 1/3); 20% NON TO LOW PLASTIC FINES; 80% FINE SAND; TRACE OF MED.
						20											

Reviewed by: _____ Date: _____

Rev. 10/90



FIELD LOG OF EXPLORATORY BORING

PROJECT No. 2349-600.001 DATE 12-1-75
CLIENT ANDREW J. BZGENS CO.
LOCATION 99 W. VERDEGRO AVE.
LOGGED BY BOURANE
BOURANE

BORING No. B-7
Sheet 2
of 3

Field location of boring:

Drilling Co. _____
Drill rig model _____
Drilling method _____
Hole dia. _____

Boring completion data _____

Ground Elev. _____

Datum _____

PID (Baru)	Pocket Penetrometer (TSF)	Blows/6 in. and/or Pressure (PSI)	Type of Sampler	Recovery (ft/ft)	Sample Number and Container Type	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to ▽	Time	Date	DESCRIPTION	
		18					X								SAND; MED. DENSE; DAMP; NO ODOOR.
2.0		24	mc	1.5/ 1.58-7.20		21	X		SM						@ 20': SILTY SAND (SM); OLIVE BRN. (2.5% 4/1); 1% NOD TO LOW PLASTIC FINES; 85% FINE SAND; DENSE; DAMP; NO ODOOR OR STAINING.
		26				22									
						23									
						24									
						25	X								@ 25': OLIVE BRN. (2.5% 4/1); 1.5% NOD TO LOW PLASTIC FINES; 85% FINE SAND; MED. DENSE; FEO STAINING; DAMP; NO ODOOR OR STAINING.
3.7		19													
		23	mc	1.5/ 1.58-7.25		26	X		SM						
		31				27									
						28									
						29									
						30	X								SAND (ST); OLIVE BRN. (2.5% 4/1); 5% NOD TO LOW PLASTIC FINES; 95% FINE SAND; TRACE OF FINE GRAVEL, SUBTEND UP TO 1/2" DIA.; MED. DENSE; DAMP; NO ODOOR OR STAINING.
2.6		7													
		7	mc	1.2/ 1.58-7.30		31	X		ST						
		12				32									
						33									
						34									
						35	X								@ 35': OR GR. BRN. (2.5% 4/1); TRACE OF FINES; 95% FINE SAND; TRACE OF MED. SAND; 5% FINE GRAVEL, SUBTEND UP TO 1/2" DIA.; MED. DENSE; DAMP; NO ODOOR OR STAINING.
<1		17													
		24	mc	1.5/ 1.58-7.35		36	X		ST						
		27				37									
						38									
						39									
						40									

ATTACHMENT 5
LIMITATIONS

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.



FIRE DEPARTMENT
MICHAEL W. DAVIS
FIRE CHIEF

CITY OF BURBANK
353 EAST OLIVE AVENUE, BURBANK, CALIFORNIA 91502-1282
(818) 238-3473
FAX (818) 238-3483

December 21, 1995

Ms. Erin K. O'Connell, R.G.
Project Geologist
EMCON
3300 North San Fernando Boulevard
Burbank, CA 91504

**RE: REMEDIAL ACTION PLAN (RAP) - FORMER TANKS 5, 6, AND 8
99 WEST VERDUGO AVENUE, THE ANDREW JERGENS COMPANY**

Dear Ms. O'Connell:

We have reviewed and evaluated the remedial action plan dated December 13, 1995, for the above referenced project. You may proceed with the implementation of the Remedial Action Plan (RAP) provided that all work is performed in accordance with the RAP, and complies with the following site specific modifications.

1. The collection of confirmation samples must be based on one sample for every 100 square feet being obtained from the base and sidewalls of the excavation. Additional samples are required at any apparent high contamination "hot spots" identified.
2. An estimated 977 cubic yards of soils will be generated during the implementation of the proposed remedial action plan. In order to use soils generated during the excavation as back fill, one sample must be collected and analyzed for every 25 cubic yards of soils plus six additional sample points.
3. The use of imported material (soils) for back fill must be accompanied with documentation verifying the material's origin and that it is suitable for use as back fill.

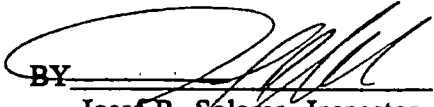
In order to schedule an inspector to witness soil sample collection, please provide this office with at least 48 hours advanced notice prior to your proposed start date.

Jergens(Cont'd)
December 21, 1995
Page 2

You should be aware that additional work may be required by other agencies exercising enforcement authority regarding this site.

If you have any questions, please call me at (818) 238-3473.

Thank you for your cooperations.

BY 
Josef R. Solares, Inspector
Underground Tank Unit

cc: Mr. Anthony J. Scrudato, The Andrew Jergens Company
Mr. Al Novak, Los Angeles Regional Water Quality Control Board
Mr. Dennis Ward, The Andrew Jergens Company
Mr. Gregory A. Cunningham, The Andrew Jergens Company
Ms. Sally W. Bilodeau, Emcon



EMCON

3300 N. San Fernando Boulevard • Burbank, California 91504 • (818) 841-1160 • Fax (818) 846-9280

December 26, 1995
Project 2349-600.001

Inspector Josef R. Solares
Underground Tank Unit
City of Burbank Fire Department
353 East Olive Avenue
Burbank, California 91502-1282

Re: Schedule for Remedial Action
Former Andrew Jergens Facility
99 West Verdugo Avenue, Burbank, California

Dear Inspector Solares:

EMCON, on behalf of the Andrew Jergens Company (Jergens), is submitting this schedule for implementation of our Remedial Action Plan dated December 13, 1995, for additional site remediation at the former Jergens facility at 99 West Verdugo Avenue, in Burbank, California.

Wednesday through Friday, January 3 through 5, 1995: The excavation of the impacted soils in the vicinity of former tanks 5, 6, and 8 will be conducted, to the total depth of impacted soils, estimated at approximately 20 feet below ground surface. The excavation will be backfilled using a combination of imported gravel and imported fill soil. As requested in the City of Burbank Fire Department letter dated December 21, 1995, documentation regarding the origin of the imported fill soil and its suitability for use as backfill will be included in the final report. The existing stockpile of approximately 50 cubic yards of soil will be sampled and analyzed to determine its suitability for use as backfill.

If you have any questions or require additional information, please contact Erin O'Connell at (818) 841-1160, ext. 316.

Sincerely,

EMCON

Erin K. O'Connell
Project Geologist

BBV:JERGENS600WPEK000853.DOC-951226:1



EMCON

3300 N. San Fernando Boulevard • Burbank, California 91504 • (818) 841-1160 • Fax (818) 846-9280

February 21, 1996
Project 2349-600.001

Inspector Josef R. Solares
Underground Tank Unit
City of Burbank Fire Department
353 East Olive Avenue
Burbank, California 91502

Re: Additional Site Investigation and Remediation
Former Andrew Jergens Facility
99 West Verdugo Avenue, Burbank, California

Dear Inspector Solares:

EMCON, on behalf of The Andrew Jergens Company (Jergens), is submitting this report documenting the results of the additional site investigation and remediation activities at the former Jergens facility at 99 West Verdugo Avenue in Burbank, California (Figure 1). The additional site investigation and remediation activities were proposed in the *Workplan for Additional Site Investigation and Remediation* (EMCON, September 20, 1995), and the *Remedial Action Plan for Additional Site Remediation* (EMCON, December 13, 1995) submitted to the City of Burbank Fire Department (CBFD) in response to letters from the CBFD dated July 11, 1994 and October 31, 1995.

This report summarizes the investigation and remediation activities conducted at the site to date and presents conclusions and recommendations. In addition, the report includes a description of the site history, field activities, and analytical results, and contains maps showing soil sample, soil boring, and excavation locations. Based on the analytical results for verification soil samples collected at the site, the hydrocarbon-impacted soils in the areas of the former underground storage tanks (tanks 1 through 8) and the clarifier have been removed. No further action is recommended for this site. EMCON, on behalf of Jergens, requests that the site be closed with respect to the environmental issues.

BACKGROUND

The site is located within the City of Burbank and is bordered by Verdugo Avenue to the southeast, Flower Street to the southwest, and by Olive Street and the Southern Pacific Railroad tracks to the northwest and southwest, respectively (Figure 1). The approximately 4.9 acre site was formerly occupied by a facility owned and operated by Jergens from the 1920s until 1992. The facility was used to manufacture soap and associated products and has been decommissioned. The buildings and pavement have been removed and the site is currently a vacant lot.



TANK CLOSURE ACTIVITIES

The report prepared by Jack K. Bryant Engineers, Inc. (J.K. Bryant) documents the excavation and removal of eight underground storage tanks (USTs) from the site during February and March of 1995 (J.K. Bryant, July 6, 1995). This report was submitted by J.K. Bryant to the CBFDD on behalf of Jergens. The following discussion is summarized from the J.K. Bryant report.

On February 16, 1995, tanks 1 through 4 and associated product line piping were excavated and removed (Drawing 1). Soil samples collected from the base of the excavation of tanks 1, 2, and 3 did not contain detectable concentrations of total recoverable petroleum hydrocarbons (TRPH) using U.S. EPA Method 418.1 or benzene, toluene, ethylbenzene, and total xylenes (BTEX) using U.S. EPA Method 8020 (Table 1). Soil samples collected from beneath tank 4 did not contain detectable concentrations of TPH or total extractable petroleum hydrocarbons using U.S. EPA Method 8015M. Samples collected beneath the product lines associated with tank 4 were reported to be impacted with TRPH concentrations ranging from 53 to 76 milligrams per kilogram (mg/kg).

The soil from the excavation of tanks 1, 2, and 3 was stockpiled at the southeastern corner of the site. The soil was initially segregated into two separate stockpiles, and were subsequently consolidated into one stockpile. Grab samples designated as stockpile #1 and #2 were collected from the two original stockpiles, and a third sample was later collected from the stockpile of consolidated material (Plastic lined #1). The highest concentration of TPH reported for a stockpile sample was 680 mg/kg (Table 1). It is EMCON's understanding that the soil excavated during the removal of tank 4 was used as backfill of the tank 4 excavation.

On March 8 and 22, 1995, four USTs (tanks 5 through 8) were excavated and removed from the north-central portion of the site (Figure 2). Soil samples collected beneath tanks 5, 6, and 8 were reported to be impacted with TRPH concentrations ranging from 16,000 to 35,000 mg/kg (Table 1). Soil excavated during the removal of tank 5 was stockpiled and covered with polyethylene sheeting, and the tank excavation was backfilled with the remaining excavated soils.

Soil Disposal

A total of approximately 100 cubic yards of soil was generated during the removal of tanks 1, 2, and 3. The soil was stockpiled on site and covered with plastic sheeting

(J.K. Bryant, July 6, 1995). On March 8, 1995, EMCON personnel collected 19 soil samples (SP-1 through SP-19) from the soil stockpile. The soil samples were analyzed for TPH as gasoline and diesel by U.S. EPA Method 8015M and for BTEX by U.S. EPA Method 8020. In addition, the sample with the highest TPH was analyzed for total lead by U.S. EPA Method 3050/6010. Concentrations detected in samples S-1 through SP-19 were with the maximum allowable concentration guideline for BTEX and TRPH. The stockpile sample results are included in Table 1. The certified analytical reports and chain-of-custody documentation were submitted in EMCON's workplan dated September 20, 1995.

On June 29, 1995, EMCON, on behalf of Jergens, submitted an application to the Regional Water Quality Control Board (RWQCB) for a waste discharge requirements (WDR) permit. The application discussed that the stockpile had been generated during the tank 1, 2, and 3 excavation, and that EMCON proposed to backfill the tank excavation with these soils. The application included a discussion of the soil sampling and the analytical results. The application was submitted to the RWQCB as required by the RWQCB Order 91-93, "General Waste Discharge Requirements for Discharge of Non-Hazardous Contaminated Soils and Other Wastes in Los Angeles River and Santa Clara River Basins", also known as WDRs. On July 28, 1995, the RWQCB issued a WDR for use of the stockpiled soils as backfill material at the site (EMCON, September 20, 1995).

On August 24, 1996, EMCON personnel notified Inspector Josef Solares of the CBFD that the WDR had been obtained from the RWQCB, in response to the CBFD letter's "Additional Requirements" Number 6 requesting that appropriate evidence indicating legal disposal of the excavated soils be submitted to the CBFD (CBFD, July 11, 1995).

ADDITIONAL INVESTIGATION ACTIVITIES

Vadose-Zone Well Abandonment

On February 24, 1995, EMCON provided oversight of the abandonment of three vadose zone monitoring wells (VW-1 through VW-3) located on site (Drawing 1). The well abandonment was performed using a truck-mounted, hollow-stem auger drill rig to overdrill each well to at least the total depth of the well and remove all of the well materials including casing, screen, filter pack, and seal. Well VW-1, located adjacent to the former clarifier, northwest of the former diesel USTs (tanks 1, 2, and 3), was approximately 7.5 feet deep, with 5 feet of screen and 2 feet of blank casing. Wells VW-2

and VW-3, located near the former above ground ethanol tank, were both approximately 40 feet deep with 35 feet of screen and 5 feet of blank casing.

Upon removal of the well materials, the boreholes were backfilled with bentonite grout to approximately 1 foot below grade. The well materials and auger rinseate generated during the abandonment were contained in 55-gallon DOT-approved drums and stored on site pending final characterization and disposal. The field procedures for abandoning the vadose zone wells were included in EMCON's workplan dated September 20, 1995.

Borings EB-1 and B-1 through B-5

In February and March, 1995, EMCON conducted a preliminary site assessment to delineate the extent of soil impacted by petroleum hydrocarbons associated with the former aboveground and underground storage tanks (tanks 4 through 8), sump, and clarifier. On February 24, 1995, soil boring EB-1, located in the vicinity of the former aboveground gasoline tank (tank 4), was drilled to a depth of approximately 15 feet below grade (Drawing 1). This work was conducted by Jergens in response to a request from a potential buyer of the property. Soil samples were collected at 5 foot depth intervals and analyzed for TPH as gasoline by U.S. EPA Method 8015 (Modified). TPH as gasoline was not detected at concentrations above the method reporting limit (Table 2).

On April 28, 1995, soil borings B-1 through B-3 were drilled in the vicinity of the tank 5, 6, 7, and 8 excavation (Drawing 1). Soil samples from borings B-1 through B-3 were collected at approximately 5-foot depth intervals and analyzed for hydrocarbon scan/fuel characterization and BTEX by U.S. EPA Methods 8015 (Modified) and 8020, respectively. TPH and benzene were not reported at concentrations above the MRLs in the soil samples (Table 2).

Borings B-4 and B-5 were drilled at the location of the former clarifier and sump (Drawing 1). Soil samples collected from borings B-4 and B-5 were analyzed for hydrocarbon scan/fuel characterization, volatile organic compounds, base neutral/acid semivolatile organic compounds (semi-VOCs), semivolatiles, hexavalent chrome, and pH. This work was conducted by Jergens in response to a request from a potential buyer of the property. The analytical methods used are listed on the analytical reports presented in Attachment 2. Concentrations of TPH, VOCs, semi-VOCs, and hexavalent chromium were not detected in the soil samples collected from boring B-5 (Table 2). Concentrations of TPH of 3,000 and 1,800 mg/kg were detected in the soil samples collected from boring B-4 at depths of 5 and 10 feet, respectively. Trace concentrations of three VOCs

were also detected in these samples. These results indicate that hydrocarbons were present in the soil in the vicinity of the former clarifier.

The field procedures for drilling and sampling the soil borings, the boring logs, and the analytical results and chain-of-custody documentation were included in EMCON's workplan dated September 20, 1995.

Borings B-6 and B-7

On December 1, 1995, two exploratory soil borings (B-6 and B-7) were drilled on-site to a maximum depth of 51.5 feet below ground surface (bgs). Soil boring B-6 was drilled through the approximate center of the footprint of the former tank 5, 6, 7 and 8 excavation to delineate the vertical extent of hydrocarbon-impacted soil. Boring B-7 was drilled at an approximately 20-degree angle to assess the lateral extent of hydrocarbon-impacted soil to the north of the former tanks (Drawing 1).

The samples were analyzed for the presence of hydrocarbons using hydrocarbon scan/fuel characterization by U.S. EPA Method 8015M, and BTEX using U.S. EPA Method 8020. TPH and benzene concentrations were not reported at concentrations above method reporting limits in the soil samples collected from borings B-1, B-2, B-3, and B-7. The soil samples collected at depths of 5, 10, and 15 feet bgs contained concentrations of petroleum hydrocarbons ranging from 66 mg/kg to 10,000 mg/kg (Table 2). These results indicate that the horizontal and vertical extent of hydrocarbon-impacted soil in the area of the former tank 5, 6, 7 and 8 excavation had been delineated.

The field procedures for drilling and sampling the soil borings and the analytical results and chain-of-custody documentation were submitted in the workplan dated September 20, 1995.

REMEDIATION ACTIVITIES

Clarifier Excavation

Based on the analytical results for soil boring B-4, excavation of the former clarifier location was conducted by EMCON on December 6 and 7, 1995 (Drawing 1 and Figure 2). During the excavation work, air monitoring was conducted consistent with SCAQMD Rule 1166 air monitoring requirements, and the SCAQMD monitoring forms are included in Attachment 4. Impacted soil was removed to a maximum depth of 12 feet

below ground surface, and verification soil samples were collected from the base and sidewalls of the excavation (Figure 2 and Photograph 1). Impacted soils were removed from around a 12-inch water pipe located in the excavation area (Photograph 2). Soil samples V-1, V-2, V-3, and V-4 were collected from the sidewalls of the excavation, and samples V-5, V-6, and V-7 were collected from the base of the excavation. These samples were analyzed in the field by a state-certified mobile laboratory for BTEX using EPA Method 8020 and for the presence of hydrocarbons using hydrocarbon scan/fuel characterization by EPA Method 8015M. Samples V-1, V-5, and V-6 contained TPH in the diesel range (carbon range of C10 through C20) at concentrations ranging from 200 to 340 mg/kg (Table 3).

Based on the hydrocarbon concentrations detected in the verification soil samples, additional overexcavation was conducted. Impacted soil was removed to a maximum depth of approximately 12 feet bgs, and additional verification samples (V-8 through V-12) were collected from the base and sidewalls of the excavation (Figure 2). BTEX and TPH were not reported above the MRLs for these samples (Table 3). A representative of the CBFD was present during the collection of the verification samples.

Approximately 300 cubic yards of soil were excavated from the former clarifier location. Samples SP-1 through SP-12 were collected from the stockpile and analyzed to characterize the soil for disposal (Table 4). The soil was stockpiled on site and covered with plastic sheeting pending receipt of certified analytical results. On February 7, 1996, the soil was transported off site and disposed at the TPS Technologies, Inc. (TPS) facility in Adelanto, California. Soil disposal manifests are included in Attachment 5.

Based on the analytical results of the verification soil samples collected from the base and sidewalls of the excavation, hydrocarbon-impacted soil in the area of the former clarifier had been adequately removed. Following receipt of approval from Inspector Josef Solares of the CBFD, the excavation was backfilled to grade with imported gravel and clean fill soils (Photograph 3). The soil were compacted to at least 90% maximum dry density and the certified compaction report is included in Attachment 6.

Tank 1, 2, 3 Excavation Backfill

Six soil samples (1A, 1B, 2A, 2B, 3A, and 3) that were collected beneath tanks 1, 2, and 3, did not contain detectable concentrations of TRPH (J.K. Bryant, July 6, 1995)(Table 1). Six additional soil samples (WTN, WTS, MTN, MTS, ETN, and ETS) collected from the sidewalls of the excavation also did not contain detectable concentrations of TPH. Based

on these results, no additional investigation of the tank 1, 2, and 3 excavation was requested the CBFD (CBFD, July 11, 1995).

On December 8, 1995, the tank 1, 2, and 3 excavation that had been open since February of 1995 was backfilled to a depth of -8 feet using gravel, and the upper 8 feet was backfilled with the stockpiled soils generated during the removal of the tanks. The soils were backfilled to at least 90% maximum dry density and the certified compaction report is included in Attachment 6. The approximately 100 cubic yards of soil stockpiled adjacent to the excavation had been approved by the RWQCB for backfill. A copy of the WDR permit is included in Attachment 3.

Tank 5, 6, 7, and 8 Excavation

Based on the analytical results for the soil samples collected from beneath tanks 5, 6, 7, and 8 (Tank 5A, Tank 5B, Tank 6A, Tank 7, Tank 8, 8A, and 8B) and for samples from soil borings B-1 through B-3, and B-6 and B-7, excavation of the location of the former underground storage tank cluster was conducted by EMCON on January 8, 9, and 10, 1996 (Photograph 4). During the excavation work, air monitoring was conducted consistent with SCAQMD Rule 1166 air monitoring requirements, and the SCAQMD monitoring forms are included in Attachment 4. Abundant concrete, piping, and other debris were removed from the former tank backfill. Impacted soil was removed to a maximum depth of 19 feet below ground surface (Photograph 5), and a total of twenty-six (26) verification soil samples were collected from the base and sidewalls of the excavation (Figure 3). A representative of the CBFD was present during the collection of the verification samples.

These samples were analyzed in the field by a state-certified mobile laboratory for BTEX using EPA Method 8020 and for the presence of hydrocarbons using hydrocarbon scan/fuel characterization by EPA Method 8015M. Soil analytical results are presented in Table 4 and the certified analytical reports are presented in Attachment 2.

The soils in the vicinity of verification samples V-13 through V-15, V-25, V-29, and V-37, were overexcavated based on the analytical results. Additional verification samples were then collected for analysis at the direction of the CBFD.

Based on the analytical results for the verification soil samples collected from the base and sidewalls of the excavation, the hydrocarbon-impacted soil in the area of the former tanks 5, 6, 7, and 8 were determined to have been adequately removed. Following the approval from the CBFD, the excavation was backfilled to grade with a combination of

Inspector Josef R. Solares
February 21, 1996
Page 8

Project 2349-600.001

imported gravel and clean fill soils (Photograph 6). Two samples of the imported fill soils were collected for analysis at the request of the CBFD. These samples did not contain detectable concentrations of TPH or BTEX (Table 4). A copy of the certified compaction report for the excavation backfill is included in Attachment 6, and analytical results for samples of backfill materials are presented on Table 4.

Approximately 800 cubic yards of soil were excavated at the former location of tanks 5, 6, 7, and 8. The soil was stockpiled on site and covered with plastic sheeting pending receipt of the sample analytical results and determination of appropriate disposal options. On February 7, 1996, the soil was transported off site and disposed at the TPS facility in Adelanto, California. The manifests are included in Attachment 5.

CONCLUSIONS

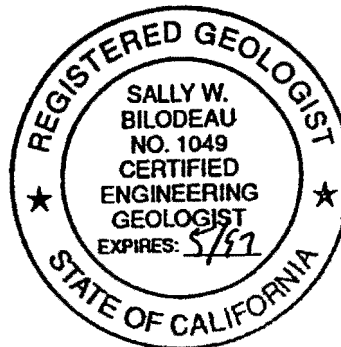
Based on the analytical results for verification soil samples collected at the site, the hydrocarbon-impacted soils in the areas of the former underground storage tanks (tanks 1 through 8) and the clarifier have been removed. No further action is recommended for this site. EMCON, on behalf of Jergens, requests that the site be closed with respect to the environmental issues.

This report has been prepared consistent with current and generally accepted environmental consulting principles and practices that are within the limitations described in Attachment 7. If you have any questions or require additional information, please do not hesitate to call.

Sincerely,

EMCON

Sally W. Bilodeau
Sally W. Bilodeau, C.E.G. #1049
Director of Hazardous Waste Services



Inspector Josef R. Solares
February 21, 1996
Page 9

Project 2349-600.001

Attachments: References

Table 1 - Summary of Soil Analytical Results - Grab Samples

Table 2 - Summary of Soil Analytical Results - Soil Borings

Table 3 - Summary of Soil Analytical Results - Clarifier Excavation

**Table 4 - Summary of Soil Analytical Results - Tank 5, 6, 7 and 8
Excavation**

Photographs

Figure 1 - Site Location Map

Figure 2 - Clarifier Excavation

Figure 3 - Tank 5, 6, 7, and 8 Excavation

Drawing 1- Site Plan

Attachment 1 - General Field Procedures and Boring Logs

**Attachment 2 - Certified Analytical Reports and Chain-of-Custody
Documentation**

**Attachment 3 - Waste Discharge Requirements Permit Dated July 28,
1995**

Attachment 4 - SCAQMD Rule 1166 Air Monitoring Forms

Attachment 5 - Soil Disposal Manifests

Attachment 6 - Certified Compaction Reports

Attachment 7 - Limitations



CITY OF BURBANK
353 EAST OLIVE AVENUE, P.O. BOX 6459, BURBANK, CALIFORNIA 91510-6459

(818) 953-8771

FAX NO (818) 953-8786

FIRE DEPARTMENT

October 2, 1991

Mr. Allen Haig
Andrew Jergens Company
99 W. Verdugo Avenue
Burbank, CA 91502

Dear Mr. Haig:

SUBJECT: Chapter 6.95 of Division 20, Sections 25533 and 25536;
California Health and Safety Code; Burbank City
Ordinance 3023.

The California Health and Safety Code and the Burbank City Ordinance requires that all businesses which handle Acutely Hazardous Materials (AHM's) in quantities that equal or exceed the Environmental Protection Agency's (EPA) Threshold Planning Quantity (TPQ) for Extremely Hazardous Substances, must submit an accurate and complete AHM Registration Form to the Local Administering Agency. The Local Administering Agency for the City of Burbank is the Burbank Fire Department (BFD).

According to information available to the Burbank Fire Department your business has been identified as a handler of Acutely Hazardous Materials (AHM's). If you handle AHM's at or above the Threshold Planning Quantity (TPQ) you are required to complete and submit the AHM Registration Form to the Burbank Fire Department. If you have not already done so, an updated chemical inventory and business plan must also be submitted to the Burbank Fire Department.

A list of Acutely Hazardous Materials along with the EPA Threshold Planning Quantities is enclosed along with the required AHM registration form.

Please follow the enclosed instructions to complete the Acutely Hazardous Materials Registration Form. Submit the form to the Burbank Fire Department within 30 days of receipt of this letter. Failure to comply may result in civil penalties and/or criminal prosecution.

PAGE 2

After submission of this form, a representative of the Burbank Fire Department will contact you with additional instructions if you need to complete an additional Risk Management Prevention Program (RMPP) or make additional submissions.

If you have any question after reading the enclosed information regarding these requirements, please contact the Burbank Fire Department's Fire Prevention Bureau at (818) 953-8773.

Thank you for your cooperation.

Michael W. Davis
Chief of Fire Department

By *Devin Burns*
Devin Burns
Hazardous Materials Specialist
Fire Prevention Bureau

DB:smp
ahm.let

Enc: 1. Acutely Hazardous Materials Registration Form
2. Appendix A - The List of Extremely Hazardous Substances



FIRE DEPARTMENT

CITY OF BURBANK
353 EAST OLIVE AVENUE, P.O. BOX 6459, BURBANK, CALIFORNIA 91510-6459
PHONE NO. (818) 953-8777
FAX NO. (818) 953-8786

ACUTELY HAZARDOUS MATERIALS REGISTRATION FORM INSTRUCTIONS

The following step by step instructions will assist you in completing the Acutely Hazardous Materials Registration Form.

1. BUSINESS NAME

Identify the Business by Business Name.

2. BUSINESS SITE ADDRESS

Identify the Business/Facility Site Address where the Acutely Hazardous Materials are stored, used, or otherwise handled.

3. BUSINESS MAILING ADDRESS

Identify the Business Mailing Address if it is different from the Business/Facility Site Address.

4. BUSINESS TELEPHONE

Provide the Business Phone number where responsible management personnel in charge of hazardous materials can be reached. Include the telephone number to the main office if it is different.

5. BUSINESS PLAN SUBMISSION DATE

Indicate the date the Business Plan was submitted to the Local Administering Agency.

6. PROCESS DESIGNATION

Briefly identify the process or operation where the Acutely Hazardous Material is used, handled or stored. If this section is not applicable, please indicate.

ACUTELY HAZARDOUS MATERIALS REGISTRATION FORM INSTRUCTIONS
PAGE 2

7. ACUTELY HAZARDOUS MATERIALS HANDLED

Refer to the attached list of Extremely Hazardous Substances and their Threshold Planning Quantities. The EPA Extremely Hazardous Substances are also referred to as Acutely Hazardous Materials. Using this list, identify the Acutely Hazardous Materials you use, store or otherwise handle.

- a. List by Chemical Name each AHM and its respective quantity in pounds. Use additional pages if necessary and attach to this form.

8. GENERAL DESCRIPTION OF PROCESSES AND PRINCIPAL EQUIPMENT

Briefly describe the process of operation and principal equipment where Acutely Hazardous Materials are used in this facility. DO NOT INCLUDE TRADE SECRET INFORMATION IN THESE DESCRIPTIONS.

9. SIGNATURE BLOCK

The individual completing this form or the company officer in charge of hazardous materials for the business shall sign their name, print their name, give their job title and date.



THE ANDREW JERGENS COMPANY • 99 W. VERDUGO AVENUE • BURBANK, CALIFORNIA 91502

October 14, 1991

Devin Burns
Hazardous Materials Specialist
Fire Prevention Bureau
City Of Burbank
353 East Olive Avenue
P.O. Box 6459
Burbank, CA 91510-6459

SUBJECT: 1991 Hazardous Chemicals & Business Plan Submission

Enclosed is the Andrew Jergens Co. 1991 Hazardous Chemical information:

Acutely Hazardous Materials Registration Form for one chemical, chloroacetic acid.

Updated Chemical Inventory. This updates the previous inventory submitted to the City 6-27-90. The revised information is underlined.

Business Plan. The business plan submitted 7-2-90 with an update of 2-6-91 accurately reflects our present situation.

Let me know if you have any questions about this.

Sincerely,

Allen W. Haig
Environmental & Safety Engineer

Burbank Fire Department

HAZARDOUS MATERIALS INVENTORY

Standard Business ☐

This section MUST be completed even if no Chemicals are used in the business

Dun and Bradstreet

425-1617

Business Name: ANDREW JERGENS Co.Owner Name: KAO CORP.Location: 99 W. VERDUGO AVE.Address: 14-10 NIHONBASHI KAYABACHO, 1CHOME, CHOU-KUCity, Zip: BURBANK, CA 91502City, Zip: TOKYO, 103 JAPANPhone #: (818) 846-9822

Phone #: _____

Page 1 of 2

Standard Ind. Class Code: 2844Name of this Facility: NONE

Refer to Instructions for proper codes

1 Trans Code	2 Type Code	3 Max Amt	4 Average Amt	5 Annual Est	6 Measure Units	7 Cont Type	8 Cont Press	9 Cont Temp	10 Use Code	11 % by Wt	12 Names of Mixture/Components See Instructions
R	P	35,000	35,000	5,000	GAL	01	1	4	19	100	#2 DIESEL OIL
<input type="checkbox"/> Immediate Health <input checked="" type="checkbox"/> Fire (14) <input type="checkbox"/> Reactivity <input type="checkbox"/> Delayed Health <input type="checkbox"/> Sudden Release of Pressure 15) <u>W. YARD TANK AREA</u> 16) C.A.S. Number <u>64741-44-2</u> 13) # Days on Site <u>365</u>											
R	M	2,500	800	3,000	LBS	12	1	4	99	100	HYFLO SUPER CEL
<input type="checkbox"/> Immediate Health <input type="checkbox"/> Fire (14) <input type="checkbox"/> Reactivity <input checked="" type="checkbox"/> Delayed Health <input type="checkbox"/> Sudden Release of Pressure 15) <u>OLD BOILER PUMP RM., 1ST FL.</u> (FILTER AID) 16) C.A.S. Number _____ 13) # Days on Site <u>365</u>											
D										100	CELLULOSE
<input type="checkbox"/> Immediate Health <input type="checkbox"/> Fire (14) <input type="checkbox"/> Reactivity <input type="checkbox"/> Delayed Health <input type="checkbox"/> Sudden Release of Pressure 15) _____ 16) C.A.S. Number <u>NA</u> 13) # Days on Site <u>0</u>											
Emergency Contacts #1 <u>ALLEN W. HAIG</u> <u>ENVR. ENGR.</u> <u>(818) 798-3688</u> Name Title 24 Hr. Phone #2 <u>BOB SOMERVILLE</u> <u>PLANT MANAGER</u> <u>(818) 355-8677</u> Name Title 24 Hr. Phone											

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date Signed

10/11/91

**Burbank Fire Department
HAZARDOUS MATERIALS INVENTORY**

Standard Business ☐

Business Name: ANDREW JERGENS CO.

Page 2 of 2

1 Trans Code	2 Type Code	3 Max Amt	4 Average Amt	5 Annual Est	6 Measure Units	7 Cont Type	8 Cont Press	9 Cont Temp	10 Use Code	11 % by Wt	12 Names of Mixture/Components See Instructions
D	M										100 ALUMINUM SILICATE MIXTURE (FILTER AID)
<input type="checkbox"/> Immediate Health 15) _____ <input type="checkbox"/> Fire (14) <input type="checkbox"/> Delayed Health 16) C.A.S. Number <u>NA</u> <input type="checkbox"/> Reactivity <input type="checkbox"/> Sudden Release of Pressure 13) # Days on Site <u>0</u>											
R	P	4,500	2,500	15,000	GAL	OL			1	4	18
<input type="checkbox"/> Immediate Health 15) <u>AT END OF W. YARD TANK FARM</u> <input checked="" type="checkbox"/> Fire (14) <input type="checkbox"/> Delayed Health 16) C.A.S. Number <u>64-17-5</u> <input type="checkbox"/> Reactivity <input type="checkbox"/> Sudden Release of Pressure 13) # Days on Site <u>365</u>											
A	M	5,000	2,500	5,000	LBS	07			1	4	18
<input checked="" type="checkbox"/> Immediate Health 15) <u>4th FL. COSMETIC MAKING STORAGE AREA</u> <input checked="" type="checkbox"/> Fire (14) <input type="checkbox"/> Delayed Health 16) C.A.S. Number _____ <input type="checkbox"/> Reactivity <input type="checkbox"/> Sudden Release of Pressure 13) # Days on Site <u>365</u>											
											100 DISTEARYLDIMONIUM CHLORIDE MIX. >95 1-OCTADECANAMINIUM, n-, n-DIMETHYL-n- OCTADECYL, CHLORIDE (107-64-2) TR. ISOPROPANOL (67-63-0)
<input type="checkbox"/> Immediate Health 15) _____ <input type="checkbox"/> Fire (14) <input type="checkbox"/> Delayed Health 16) C.A.S. Number _____ <input type="checkbox"/> Reactivity <input type="checkbox"/> Sudden Release of Pressure 13) # Days on Site <input type="checkbox"/>											
<input type="checkbox"/> Immediate Health 15) _____ <input type="checkbox"/> Fire (14) <input type="checkbox"/> Delayed Health 16) C.A.S. Number _____ <input type="checkbox"/> Reactivity <input type="checkbox"/> Sudden Release of Pressure 13) # Days on Site <input type="checkbox"/>											

ACUTELY HAZARDOUS MATERIALS REGISTRATION FORM

This form MUST be completed by the owner or operator of EACH business in California which, at any time, handles Acutely Hazardous Material in quantities, or in a mixture, equal to or greater than the Federal Threshold Planning Quantities for Extremely Hazardous Substances. Submit this completed form to your local Administering Agency. (§25533 & 25536 Health & Safety Code)

Note instructions on reverse

BUSINESS NAME ANDREW JERGENS CO.

BUSINESS SITE ADDRESS 99 W. VERDUGO AVE., BURBANK, CA 91502

BUSINESS MAILING ADDRESS (if different) _____

BUSINESS PHONE (818) 846-9822 BUSINESS PLAN SUBMISSION DATE JULY 2, 1990

PROCESS DESIGNATION: Reacted to form intermediate raw material for liquid soap

ACUTELY HAZARDOUS MATERIALS HANDLED: _____ -USE ADDITIONAL PAGES IF NECESSARY-

CHEMICAL NAME

QUANTITY

CHLOROACETIC ACID (CAS 79-11-8)

39,200 LBS. (1990 Usage)

Max. 1990 INV.: 9,000 LBS.

GENERAL DESCRIPTION OF PROCESSES AND PRINCIPAL EQUIPMENT:

Drums of the flaked material are dumped into the lotion make tank and reacted to
form an intermediate compound for liquid soap.

SIGNATURE Allen W. Haig TITLE ENVIRONMENTAL & SAFETY ENGR.

PRINTED NAME Allen W. Haig DATE 10-10-91

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600



August 2, -1996

Greg Cunningham
Andrew Jergens Company
2535 Spring Grove Avenue
Cincinnati, Ohio 45214-1773

NO FURTHER REQUIREMENTS - ANDREW JERGENS COMPANY, 99 W. VERDUGO AVENUE, BURBANK (FILE NO. 109.0104)

Upon review of our files for the subject site, we have the following comments with respect to the Well Investigation Program:

1. Operations for manufacturing soap at the subject facility commenced before 1921. During an initial inspection on February 15, 1990, Board staff noted numerous potential sources of liquid wastes that may have impacted soil and ground water including two diesel USTs, one leaking ethanol UST, a boiler blowdown sump, an industrial wastewater clarifier and numerous above ground storage tanks. No volatile organic compounds were noted or reported at the site. Board staff subsequently required subsurface assessment to determine if soil had been impacted as a result of unregulated releases from these potential sources.
2. Laboratory analysis of soil matrix samples collected in boreholes to a maximum depth of 20' bgs adjacent to the potential sources detected maximum concentrations of 498 mg/kg total recoverable hydrocarbons (TRPH), 7,632 mg/kg ethanol and 12 µg/kg benzene. The TRPH contamination did not extent below 5' bgs. Reportedly, 60 cubic yards of ethanol contaminated soil was removed from the former ethanol UST excavation pit during a subsequent UST removal. Ground water is estimated to be approximately 100' bgs in this area.

Based on our inspections and information submitted, we have no further requirements with respect to the Well Investigation Program. The remaining soil contamination is not a continuing threat to ground water quality and therefore cleanup is not required.

The jurisdictional requirements of other agencies, such as the U.S. Environmental Protection Agency, are not affected by this Board's "no further requirements" decision. Such agencies may choose to make their own determinations regarding the site.

Greg Cunningham
Page 2

If you have any questions, please contact the undersigned at
(213) 266-7531.

A handwritten signature in black ink, appearing to read "Eric Nupen". The signature is fluid and cursive, with a large initial "E" and a long, sweeping underline.

ERIC NUPEN, R.G.
Senior Engineering Geologist

cc: David Seter, USEPA Region IX, San Francisco
Mel Blevins, ULARA watermaster
Dennis Ward, Jergens Co., Cincinnati
Sally Bilodeau, Emcon, Burbank
Doug Dickinson, banker

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

31 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600



July 28, 1995

Patricia Marshik
Staff Geologist
Emcon
3300 N. San Fernando Blvd.
Burbank, CA 91504

WASTE DISCHARGE REQUIREMENTS FOR DISCHARGE OF DIESEL CONTAMINATED
SOIL - ANDREW JERGENS COMPANY AT 99 VERDUGO AVENUE, BURBANK -
File No. 88-57-150(95)

On July 13, 1995, you filed with this Board a report of waste discharge for using up to 350 cubic yards of diesel contaminated soil as backfill material on site.

We have reviewed the information provided and have determined that the proposed discharge of this material meets the conditions specified in Order No. 91-93, "General Waste Discharge Requirements for Discharge of Non-Hazardous Contaminated Soils and Other Wastes in Los Angeles River and Santa Clara River Basins", adopted by this Board on July 22, 1991.

Enclosed are Waste Discharge Requirements, comprising:

1. General Waste Discharge Requirements
2. Monitoring and Reporting Program

Please note that the Monitoring and Reporting Program requires that a report be submitted to this Board within 10 days of the completion of disposal operations. The report shall reference the above file number.

If you have any questions, please contact Juan Gonzalez at (213) 266-7555.

Catherine Lynell

for ROBERT P. GHIRELLI, D.Env.
Executive Officer

Enclosures

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION

ORDER NO. 91-93

GENERAL WASTE DISCHARGE REQUIREMENTS
FOR
DISCHARGE OF NON-HAZARDOUS CONTAMINATED SOILS AND OTHER WASTES
IN LOS ANGELES RIVER AND SANTA CLARA RIVER BASINS
(File No. 88-57)

The California Regional Water Quality Control Board, Los Angeles Region finds:

1. The California Water Code requires that any person discharging wastes or proposing to discharge waste which could affect the quality of the waters of the state shall file a Report of Waste Discharge with the Regional Board. The Regional Board then shall prescribe requirements as to the nature of the proposed or existing discharge.
2. Soils contaminated with moderate concentrations of petroleum hydrocarbons, heavy metals and other special wastes are considered to be wastes whose discharge could affect the quality of the waters of the State.
3. Land disposal of these wastes to properly engineered and managed Class III Waste Management Units (Landfills) is proving to be an efficient and economical means of mitigating the effects of such contaminated waste. The threat to waters of the State is thereby eliminated or reduced to non-significant levels.
4. Each month this Board receives a large number of requests for the disposal of soils contaminated with hydrocarbons and other waste. For each such request, staff has to determine the concentration of the significant contaminants/pollutants in the waste, the regulatory limits, if any, for the contaminants/pollutants, and the potential impact on the waters of the State from the disposal of the waste. Such requests are anticipated to continue and far exceed the capacity of staff to review and bring to the Board for consideration of individual waste discharge requirements in a timely manner. These circumstances create the need for an expedited system for processing the numerous requests for disposal of these moderately contaminated wastes.

June 12, 1991

**General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils**

File No. 88-57

5. The adoption of general waste discharge requirements for the disposal of these non-hazardous contaminated soils and other similar wastes would: a) simplify the application process for dischargers, b) allow more efficient use of Regional Board staff time; and c) reduce Regional Board time by enabling the Executive Officer to notify the discharger of the applicability of the General Waste Discharge Requirements.
6. These general waste discharge requirements for the disposal of non-hazardous contaminated soils and other similar waste up to 100,000 cubic yards for durations not to exceed 90 days under direction of the Executive Officer would benefit the public, staff, and the Board by accelerating the review process without loss of regulatory jurisdiction and oversight.
7. The Board adopted revised Water Quality Control Plans for the Santa Clara River and Los Angeles River Basins on October 22, 1990 and June 3, 1991, respectively. These Water Quality Control Plans contain water quality objectives for ground water for all Hydrologic Subareas within the Region. The requirements contained in this Order, as they are met, will be in conformance with the goals of the Water Quality Control Plans.
8. Beneficial uses of ground water in the Los Angeles Region include municipal and domestic supply, agricultural supply, industrial process supply, and ground water recharge. Beneficial uses for individual Hydrologic Subareas are specified in the Water Quality Control Plans.
9. The Class III Landfill disposal is a one time, short term disposal, and is not anticipated to require in excess of 90 days to complete at which time these requirements will expire.
10. The issuance of Waste Discharge Requirements for the discharges subject to these general requirements is exempt from the provisions of Chapter 3, (commencing with Section 21100) of Division 13, of the Public Resources Code pursuant to one or more of the following provisions:

**General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils**

File No. 88-57

(a) The lead agency has prepared an Environmental Impact Report or a negative declaration based on findings pursuant to California Code of Regulations, Title 14, Chapter 3, Section 15070 which show that there will be no significant impact on water quality; or

(b) The project would affect a minor alteration to the condition of land, and is exempt in accordance with Title 14, Chapter 3, Section 15304, California Code of Regulations.

11. These general waste discharge requirements are not intended to alter or supersede any existing restrictions or working arrangements relating to cleanup cases with local governmental agencies.

The Board has notified interested agencies and persons of its intent to adopt general waste discharge requirements for disposal of hydrocarbon contaminated soils and other similar wastes and has provides them with an opportunity to submit their written views and recommendations.

The Board in a public meeting heard and considered all comments pertaining to the tentative requirements.

IT IS HEREBY ORDERED THAT:

A. APPLICABILITY

1. This Order shall serve as General Waste Discharge Requirements for the discharge of non-hazardous contaminated soil and other similar wastes to properly engineered and managed Waste Management Units.
2. Upon receipt of a Report Waste Discharge describing such discharge, the Executive Officer shall determine if such discharge, a) involves 100,000 cubic yards or less of hydrocarbon contaminated soil and/or other similar waste, b) involves contaminated soils and/or other similar wastes at acceptable levels as determined by the Executive Officer, but total petroleum hydrocarbons (TPH) shall not exceed an average concentration of 1,000 mg/kg, c) will be completed within 90 days, and d) is covered by adequate soil characterization of the nature and extent of the soil contamination, and e) the threat to ground water from such soil and/or other waste discharge is reduced to non-significant levels.

**General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils**

File No. 88-57

In the event the Executive Officer so finds, he shall notify the applicant (hereinafter called the Discharger) in writing that the proposed discharge is subject to this Order.

3. Notwithstanding the above provisions, individual cases may be brought to the Board for adoption of waste discharge requirements when deemed appropriate by the Executive Officer.

B. WASTE DISCHARGE REQUIREMENTS

1. No condition of pollution or nuisance shall be caused by the handling of the wastes or from any excavation operation conducted in association with this waste disposal operation.
2. Odors from the handling of these wastes shall not be perceivable beyond the limits of the property owned or controlled by the discharger.
3. All required state and local permits and/or variances shall be obtained by the discharger prior to commencing the disposal operations.
4. The discharge and disposal of waste shall be in conformance with Title 23, Division 3, Chapter 15, California Code of Regulations "Discharge of Waste to Land".
5. Wastes discharged shall be limited to material obtained from one site only; no other wastes shall be imported and/or commingled with those wastes.
6. Wastes may be discharged at a classified Waste Management Unit in the Los Angeles Region, provided the analyses are representative of the entire volume of material and with the concurrence of the site operator.
7. Waste discharged or reclaimed for reuse as soil backfill shall not contain any substance in concentrations toxic to human, animal, plant, or aquatic life.

**General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils**

File No. 88-57

8. The discharge of wastes shall be to a legal point of disposal or to a site approved by the Executive Officer and in accordance with the provisions of Division 7.5 of the Water Code. For the purposes of these requirements, a legal disposal site is one for which requirements have been established by a California Regional Water Quality Control Board and which is in compliance therewith.

C. PROVISIONS

1. A copy of these requirements shall be maintained by the discharger at the proposed site and be available at all times to operating personnel.
2. In the event the discharger is unable to comply with any of the conditions of this Order due to:
 - (a) Breakdown of waste disposal equipment,
 - (b) Accidents caused by human error or negligence,
 - (c) Other causes such as acts of nature,
 - (d) Facility operations

The discharger must notify this Board by telephone within 24 hours of the incident and confirm it in writing within one week of the telephone notification.

3. In accordance with Section 13260 of the California Water Code, the discharger shall file a report of material change with this Regional Board of any material change in the character, location or volume of the discharge.
4. The Discharger shall allow the Regional Board or an authorized representative upon the presentation of credentials and other documents as may be required by law, to:
 - (a) Enter upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;

General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils

File No. 88-57

- (b) Have access to, and copy at reasonable times, any records that are kept under the conditions of this Order;
 - (c) Inspect, at reasonable times, any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and
 - (d) To photograph, sample, or monitor, at reasonable times, for the purpose of assuring compliance with this Order, or as otherwise authorized by the California Water Code.
5. In accordance with Section 13263 of the Water Code, these waste discharge requirements are subject to periodic review and revision by this Regional Board.
6. These requirements do not exempt the discharger from compliance with any other laws, regulations, or ordinances which may be applicable, they do not legalize this soil disposal or similar waste and they leave unaffected any further restraints on those facilities which may be contained in other status or contained by other regulatory agencies.

D. EXPIRATION

These Waste Discharge Requirements regulating a specific short term soil or similar waste discharge expire 90 days after the Executive Officer has determined this Order is applicable to the specific project.

I, Robert P. Ghirelli, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on July 22, 1991.



ROBERT P. GHIRELLI, D.Env.
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM
for
DISCHARGE OF NON-HAZARDOUS CONTAMINATED SOILS
AND OTHER WASTES

ANDREW JERGENS COMPANY - 99 VERDUGO AVE., BURBANK

File No. 88-57-150(95)

I. Reporting

- A. The discharger shall implement this monitoring and reporting program on the date of issuance of the Waste Discharge Requirements.
- B. The monitoring report shall be submitted within ten (10) days following the completion of disposal operations at the final point of disposal.
- C. All analytical samples obtained for this program shall be grab samples.
- D. In the event that hazardous or other unacceptable wastes are detected during disposal, the type, source, and final disposition of these wastes shall be reported.

II. Waste Disposal Reporting

- A. A report containing the following information shall be filed with this Regional Board after completion of all waste disposal:
 1. A tabular list of the estimated average quantities (in cubic yards) and types of materials deposited.
 2. Where the material was deposited (landfill name).
 3. A certification that all wastes deposited were in compliance with the Regional Board's requirements and that no wastes have been deposited outside of the boundaries of the site as specified in the Regional Board's requirements.
 4. In those cases where approval is given for the partial disposal of contaminated soils or other wastes, the ultimate disposal point of the remaining contaminated soils or other wastes must be reported, including the quantity of material disposed of at the different location.

General Waste Discharge Requirements
Discharge of Non-Hazardous Contaminated Soils

File No. 88-57

B. Monitoring reports shall be signed by:

1. In the case of corporations, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of discharge;
2. In the case of a partnership, by a general partner;
3. In the case of a sole proprietorship, by the proprietor;
4. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

C. The report shall contain the following completed declaration:

"I declare under penalty of perjury that the foregoing is true and correct.

Executed on the ____ day of _____ at _____

(Signature)

(Title)"

D. The discharger shall mail a copy of the monitoring report to the following:

California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA 91754-2156

Attn: Technical Support Unit

Ordered by:


ROBERT P. GHIRELLI D.Env.
Executive Officer

Date:

JUL 28 1995



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX**

SFUND RECORDS CTR
88149543

75 Hawthorne Street
San Francisco, CA 94105-3901

SFUND RECORDS CTR
2166-9A416



**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
101 Centre Plaza Drive
Monterey Park, CA 91754-2156**

December 31, 1996

ANDREW JERGEN
99 W. VERDUGO AVE.
BURBANK, CA 91502
File Number: 109.0104

RE: SAN FERNANDO VALLEY SUPERFUND AREAS U.S. EPA AND LARWQCB
NOTIFICATION OF NO FURTHER ACTION

For property located at: 99 W VERDUGO AVE.
BURBANK, CA 91502

Dear Owner/Operator,

The California Regional Water Quality Control Board, Los Angeles Region ("Regional Board") staff has conducted an assessment of your facility to determine the extent of solvent usage and to assess past and current chemical handling, storage and disposal practices. Your company is among those in the San Fernando Valley which have received the Regional Board's "No Further Action" letters based on one or more of the following categories: 1) information provided in your pre-inspection questionnaire disclosed little or no solvent use; 2) the results of a staff inspection disclosed little or no solvent use; or 3) completed assessment work indicated insignificant or no solvent contamination in soil.

The purpose of this letter is to inform you that, based on the information provided to U.S. EPA by the Regional Board to date, you will not be asked by the U.S. EPA or the Regional Board to participate in regional groundwater cleanup projects currently planned for San Fernando Valley. Your company is no longer part of the U.S. EPA Superfund process, and the Regional Board and U.S. EPA plan no further action concerning your facility.

You may be contacted by those potentially responsible parties ("PRPs") that have been asked to participate in the groundwater cleanup efforts. In the event you are contacted by PRPs, please feel free to contact the appropriate Regional Board or U.S. EPA staff for additional information or assistance. The telephone numbers of Regional Board and U.S. EPA staff are provided on the enclosed contact list.

Sincerely,

Keith A. Takata

Keith A. Takata
Director
Superfund Division
U.S. EPA, Region 9

Robert P. Ghirelli

Robert P. Ghirelli, D. Env.
Executive Officer
California Regional Water Quality
Control Board, Los Angeles Office

enclosure

Los Angeles-Regional Water Quality Control Board
and
U. S. Environmental Protection Agency
Staff Contact List

Regional Board Contacts:

- For all Areas Eric Nupen
(213) 266-7531
- For general questions Jonathan Bishop
(213) 266-7538

U. S. EPA Contacts

- For North Hollywood and
Burbank Areas Duane F. James
(415) 744-2253
- For Headworks, Pollock and
Verdugo Areas Michael Osinski
(415) 744-2249